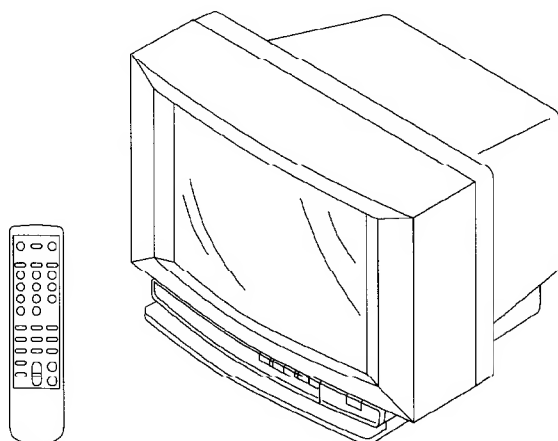


# SERVICE MANUAL

## BG-1S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-2197M5	RM-870	ME	SCC-J35U-A				
KV-2197M5S	RM-870	GE	SCC-J40R-A				



TRINITRON<sup>®</sup> COLOR TV  
**SONY<sup>®</sup>**

## SPECIFICATIONS

		Note
<b>Power requirements</b>	110-240 V AC, 50/60 Hz	
<b>Power consumption (W)</b>	Indicated on the rear of the TV	
<b>Television system</b>	B/G	
<b>Color system</b>	PAL, PAL 60, SECAM, NTSC4.43, NTSC 3.58 (AV IN)	
<b>Channel coverage</b>	VHF: E2 to E12/UHF: E21 to E69/CATV: S01 to S03, S1 to S41	
<b>Audio output (speaker)</b>	3W × 2	
<b>Inputs</b>	Antenna: 75 ohms	
	VIDEO INPUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
<b>Outputs</b>	Earphone jack: mini jack	
	MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
<b>Picture tube</b>	21 in.	
<b>Tube size (cm)</b>	54	Measured diagonally
<b>Screen size (cm)</b>	51	Measured diagonally
<b>Dimensions (w/h/d, mm)</b>	600 × 459 × 474	
<b>Mass (kg)</b>	24	

Design and specifications are subject to change without notice.

### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### SAFETY-RELATED COMPONENT WARNING!!

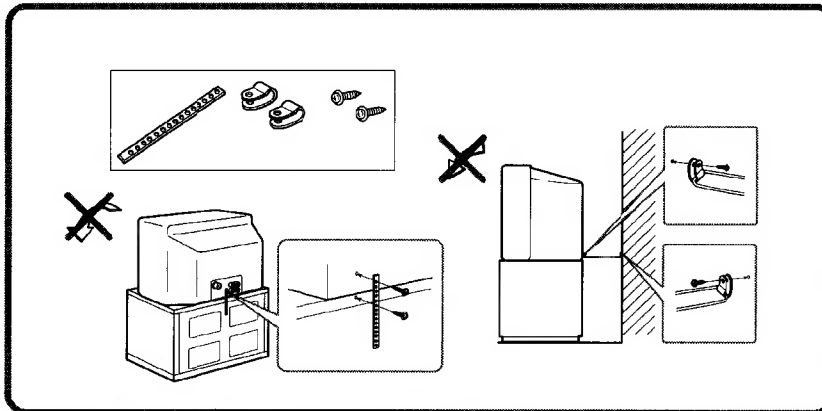
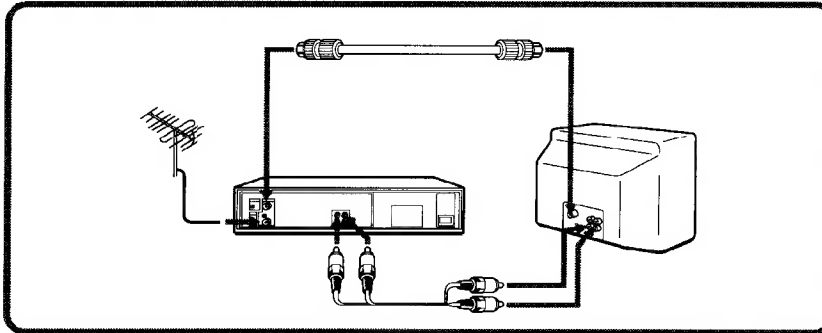
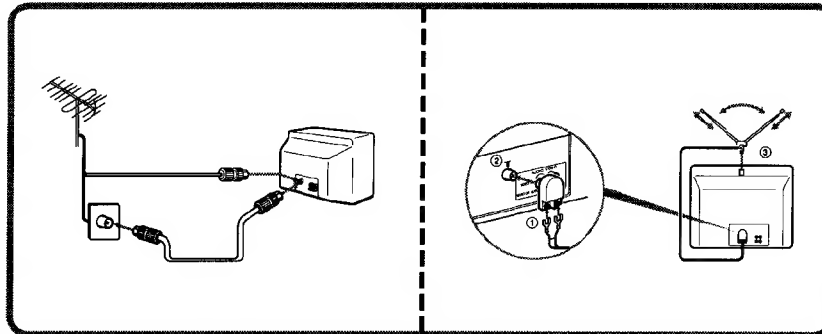
COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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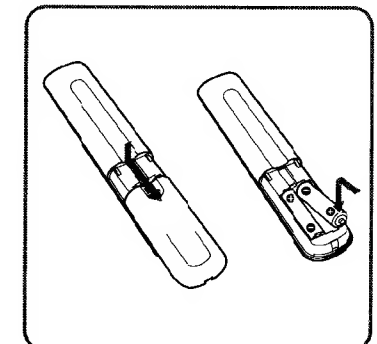
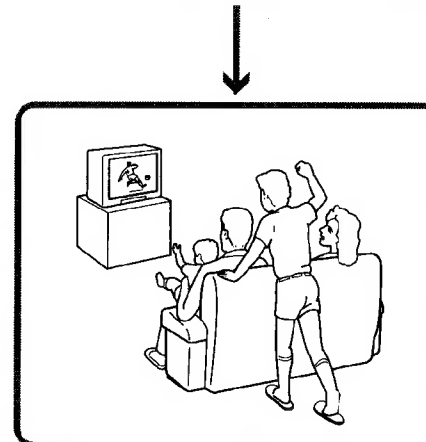
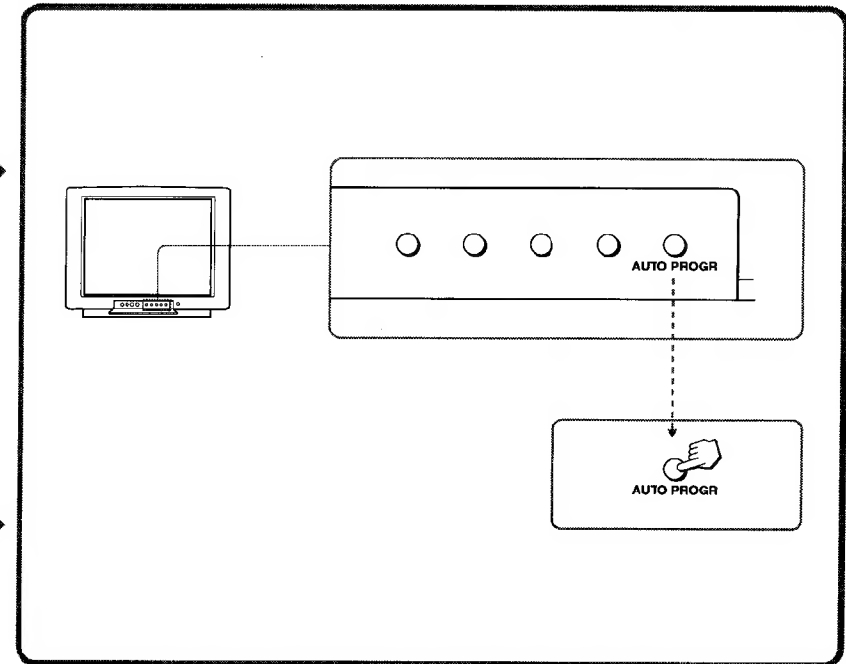
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## SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual.



2

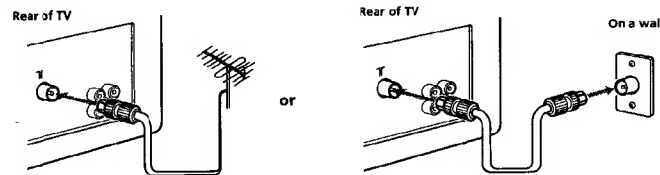


3

## Connections

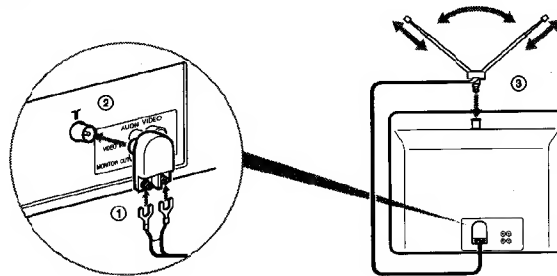
### Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the **T** (antenna) socket at the rear of the TV.



### Connecting an indoor antenna

■ KV-G14/G21/G2197



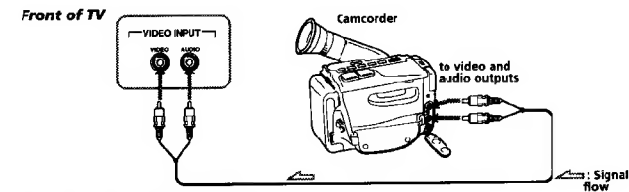
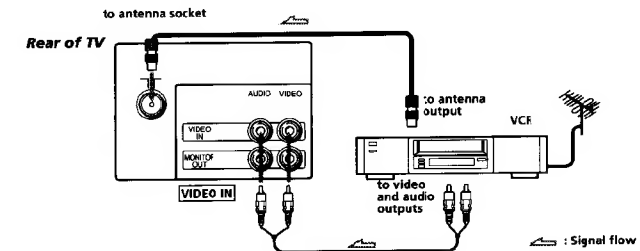
#### Note

- You are advised to use an outdoor antenna for better reception.

### Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder or video game.

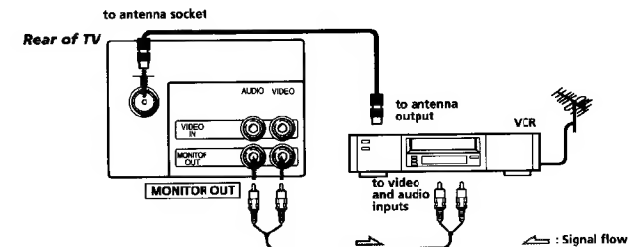
#### Connecting video equipment using VIDEO IN jacks



#### When using the video input jacks

Do not connect video equipment to the VIDEO input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

#### Connecting audio/video equipment using MONITOR OUT jacks



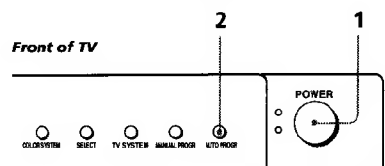
#### When recording through the MONITOR OUT jacks

If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

## Presetting channels

### Presetting channels automatically

You can preset up to 80 TV channels in numerical sequence from program position 1.

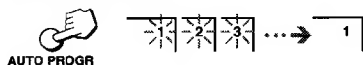


#### 1 Press POWER.



When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

#### 2 Press AUTO PROGR.



To start presetting channels automatically from the specified program position

- 1 Press MANUAL PROGR.
- 2 Press PROGR +/- to select the program position.
- 3 Press AUTO PROGR.

### Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

#### 1 Press MANUAL PROGR.

#### 2 Press PROGR +/- until the required program position appears on the screen.

#### 3 Press VOLUME +/- on the TV until the required channel picture appears on the screen.

#### 4 Press MANUAL PROGR.

### Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

#### 1 Press PROGR +/- until the unused or unwanted program position appears on the screen.

#### 2 Press MANUAL PROGR.

#### 3 Press PIC MODE on the remote commander.

#### 4 Press MANUAL PROGR.

#### To cancel the skip setting

Preset the channel manually or automatically again.

## Operations

## Watching the TV

### 1 Press POWER to turn the TV on.

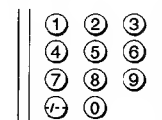


When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

### 2 Select the TV channel you want to watch.

#### To select a channel directly

Press a number button.



To select a two-digit channel, press "-/-" before the number buttons.

For example: to select channel 25, press "-/-", and then "2" and "5."



#### To scan through channels

Press PROGR +/- until the channel you want appears.

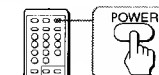


### 3 Press VOL +/- to adjust the volume.



### Switching off the TV

To switch off the TV temporarily, press POWER on the remote commander.



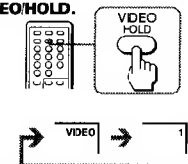
To switch off the TV completely, press POWER on the TV.

If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

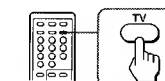


### Watching the video input

#### Press VIDEO/HOLD.

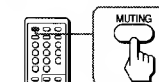


#### To watch TV, press TV.



### Muting the sound

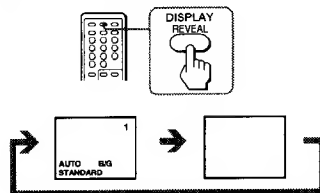
#### Press MUTING.



## Displaying on-screen information

### Press DISPLAY/REVEAL.

The program position, local system, and TV settings are displayed on the screen.

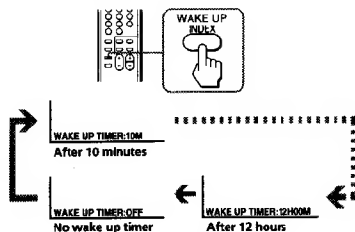


## Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

### 1 Press WAKE UP/INDEX repeatedly to set the timer.

The on-screen display appears and the WAKE UP indicator lights up.



### 2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.

### 3 Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

#### Notes

- The Wake Up Timer starts immediately after the on-screen display disappears.

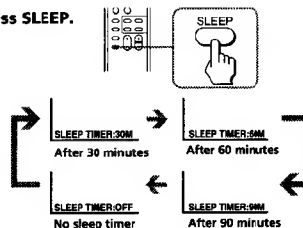
8-EN Operations

- The last TV program position or video mode just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to continue watching the TV, press any button or control on the TV or remote commander.

## Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

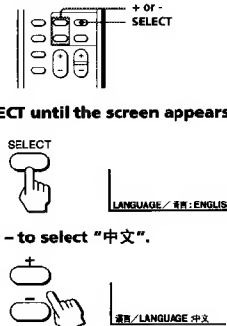
### Press SLEEP.



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

## Changing the on-screen display language

If you prefer Chinese to English, you can change the on-screen display language. You can use buttons on the remote commander or the TV.



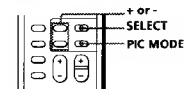
### 1 Press SELECT until the screen appears as follow:

### 2 Press + or - to select "中文".

#### Note

- You can also use VOLUME +/- on the TV to select the on-screen display language.

## Adjusting the picture

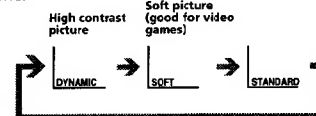


## Selecting the picture mode

Press PIC MODE until the mode you want appears.



Each time you press PIC MODE, the screen changes as follows:



#### Note

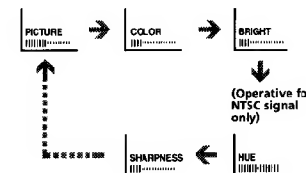
- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

## Adjusting the picture setting

### 1 Press SELECT until the item you want to adjust appears.



Each time you press SELECT, the screen changes as follows:



### 2 Press + or - to adjust the item.



### 3 To adjust other items, repeat steps 1 and 2.

#### Note

- You can also use VOLUME +/- on the TV to adjust the picture setting.

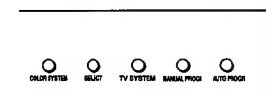
#### If the color of the picture is abnormal

Press COLOR SYSTEM or adjust the color setting until the color becomes normal.

#### Note

- Normally set COLOR SYSTEM to AUTO.

#### Front of TV



## Additional Information

### Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.  
If the problem persists, contact your nearest authorized service center or dealer.

#### Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and or the wall.

#### Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

#### Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

#### Notes

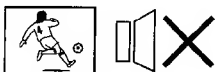
- When you switch on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.
- Design and specifications are subject to change without notice.

#### No picture No sound



- Press POWER.
- Check the antenna connection.
- Check the VCR connections.
- Check the power cord connection.
- Check the standby mode.

#### Good picture No sound



- Press VOLUME +.
- Press MUTING.

#### No color



- Adjust the COLOR level in the on-screen display.
- Check the COLOR SYSTEM setting.

#### TV cabinet creaks

- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

#### Note on the remote commander

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

#### Note on the TV SYSTEM button

- The TV SYSTEM button is not used on your TV.

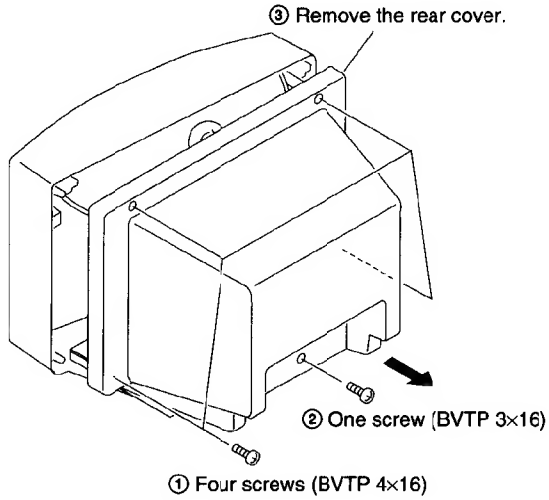
#### WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

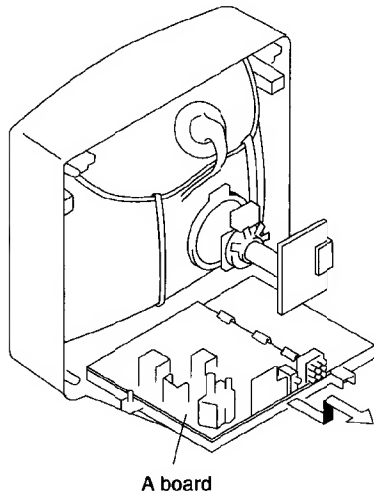


## SECTION 2 DISASSEMBLY

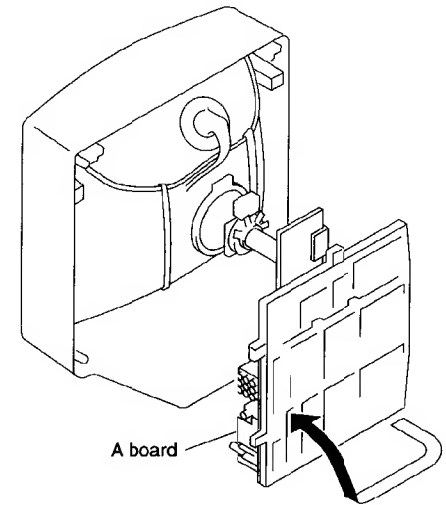
### 2-1. REAR COVER REMOVAL



### 2-2. A BOARD REMOVAL

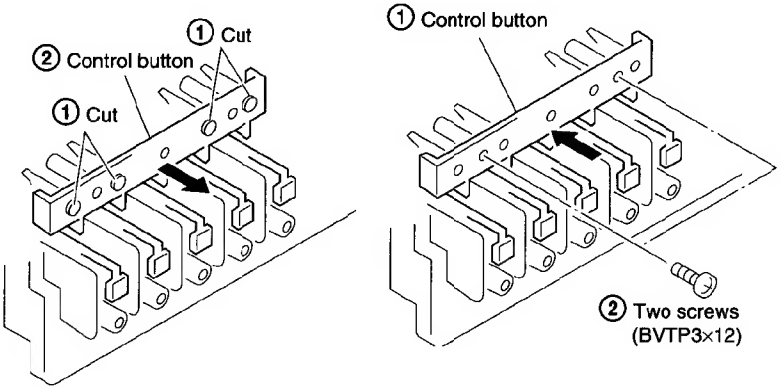


### 2-3. SERVICE POSITION

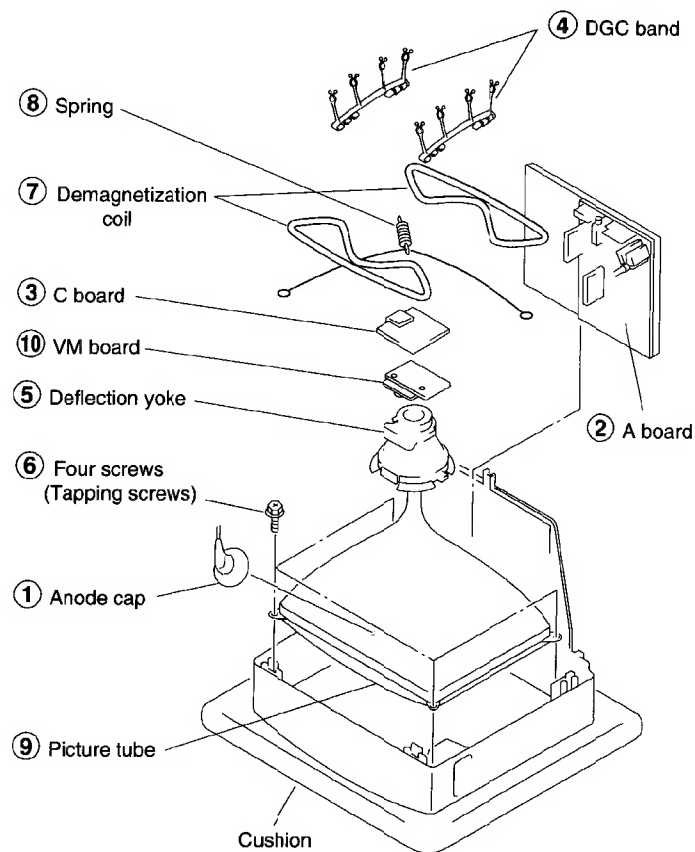


### 2-4. REPLACEMENT OF CONTROL BUTTON

For replacement of the control button cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP).



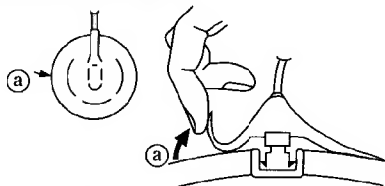
## 2-5. DEMAGNETIZATION COIL AND PICTURE TUBE REMOVAL



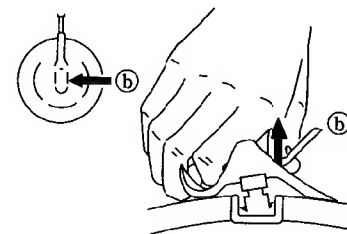
### • REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

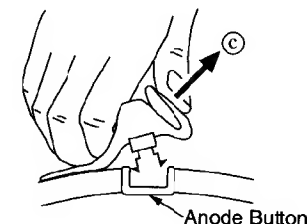
### • REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①a.



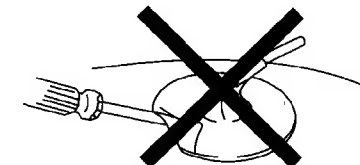
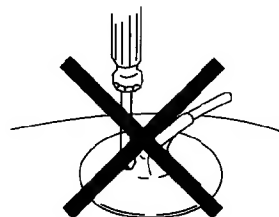
- ② Using a thumb press down then pull up the rubber cap firmly in the direction indicated by the arrow ①b.



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ①c.

### • HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-caps. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control ..... normal  
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note :** Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

#### Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

#### 3-1. BEAM LANDING

1. Input the white raster signal with the pattern generator.  
Contrast } normal  
Brightness }
2. Position neck assy as shown in Figure 3-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.  
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.  
(See Figure 3-4.)

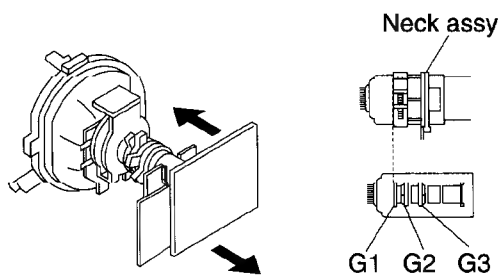


Fig. 3-1

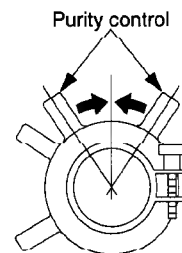


Fig. 3-2

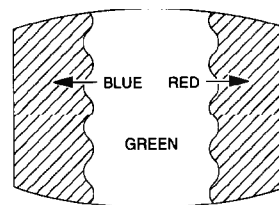


Fig. 3-3

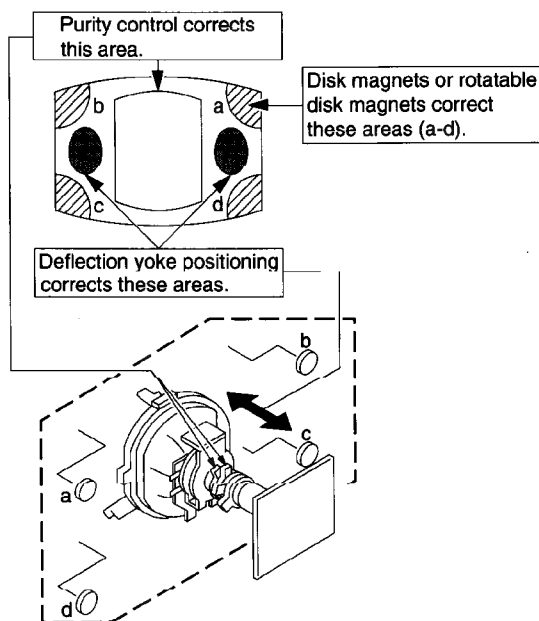


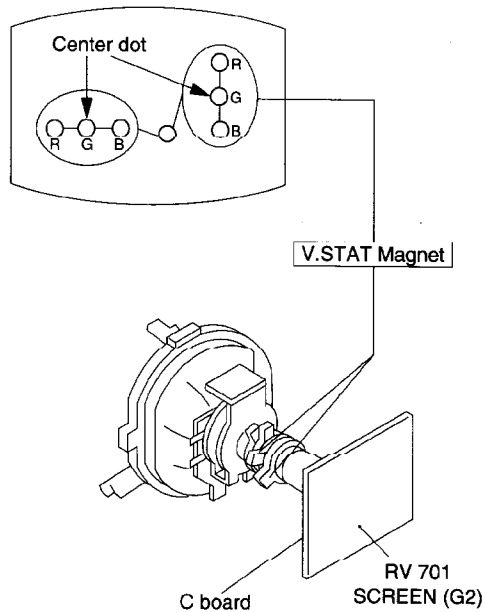
Fig. 3-4

### 3-2. CONVERGENCE

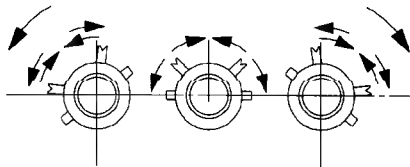
#### Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and Vertical Static Convergence

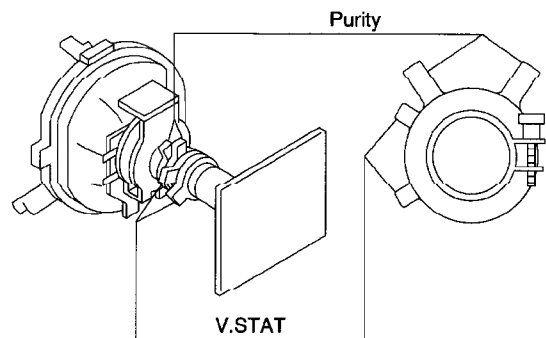
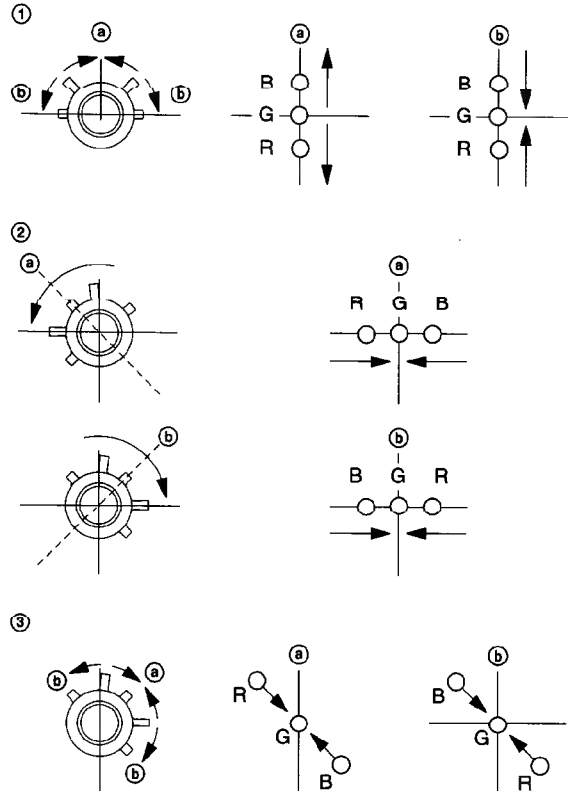


1. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue points are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR magnet so that the red, green and blue points are on top of each other at the center of the screen.
3. Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



- Operation of V.STAT magnet.

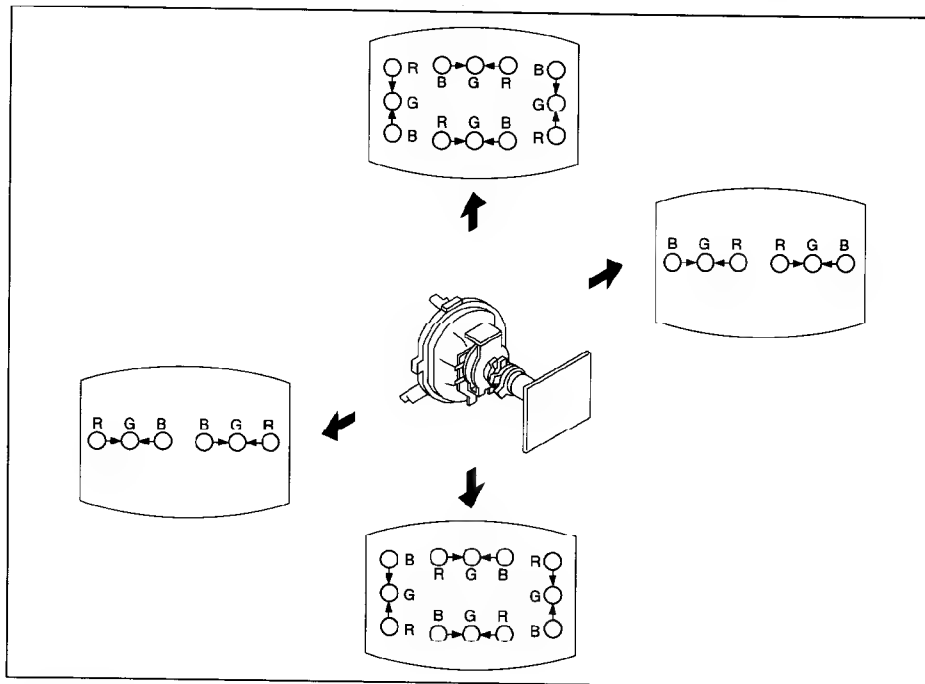
If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green and blue dots move as shown below.



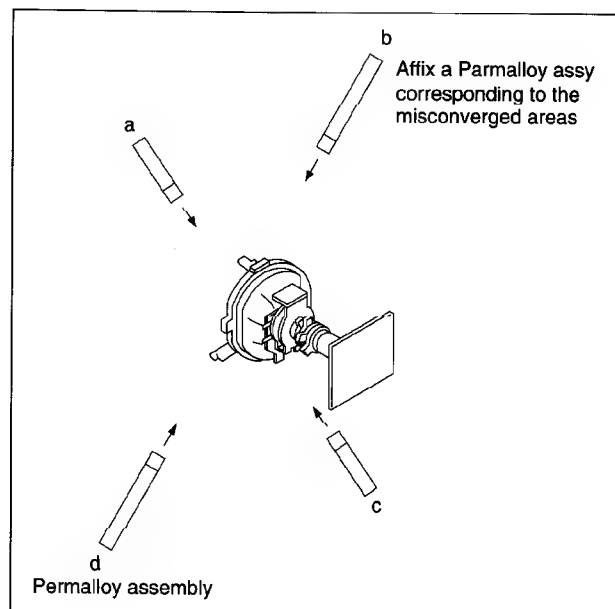
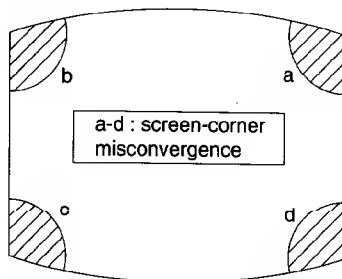
## (2) Dynamic Convergence Adjustment

### Preparation :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.
  2. Remove the deflection yoke spacer.
  3. Move the deflection yoke as shown in the figure below and optimize the convergence.
  4. Tighten the deflection yoke screws.
  5. Install the deflection yoke spacer.

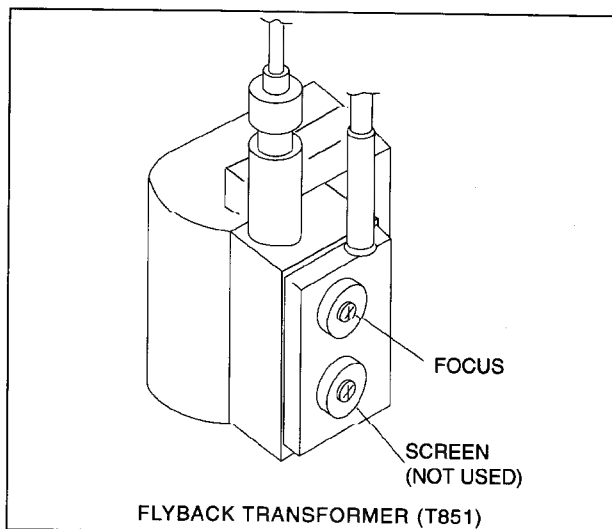


## (3) Screen-corner Convergence



### 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



Note: Screen VR is not used.

#### a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

#### b. METHOD OF CANCELLATION FROM SERVICE MODE

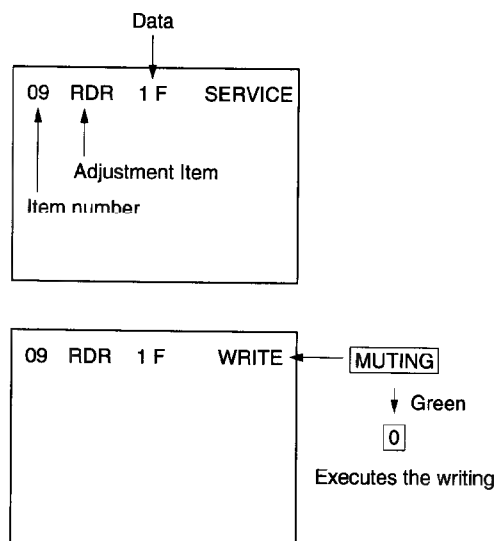
Set the standby condition (Press **POWER** button on the commander) and then press **POWER** button again, hereupon it becomes TV mode.

#### c. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **[1]** (UP) and **[4]** (DOWN), select an item of adjustment.
- 3) Press **MUTING** button and it will indicate WRITE on screen.
- 4) Press **[0]** button to write into memory.

#### d. MEMORY WRITE CONFIRMATION METHOD

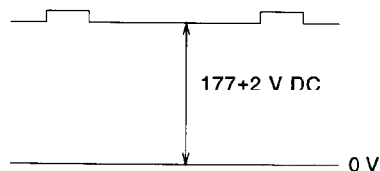
- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm they were adjusted.



### 3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

#### 1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (RV701) volume to the value below.



#### 2. WHITE BALANCE ADJUSTMENTS

- 1) Set to Service Mode.
- 2) Input an entire white signal.
- 3) Set the PICTURE to maximum.
- 4) Select RDR(09) with **[1]** and **[4]**, and then set the level to 25 with **[3]** and **[6]**.
- 5) Select GDR(0A) and BDR(0B) with **[1]** and **[4]** and adjust the level with **[3]** and **[6]** for the best white balance.
- 6) Write into the memory by pressing **MUTING** then **[0]**.

## SECTION 4

### SELF DIAGNOSIS FUNCTION

KV-2197M5/2197M5S  
RM-870

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.  
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ms each time.

The flickering frequency responding to each failed device is shown below.

<b>Device</b>	NONVOLATILE MEMORY	—	Y/C JUNGLE	—	—	AUDIO PROCESSOR (TA8776N)
<b>Flickering Frequency</b>	1	—	3	—	—	6

All the devices are checked one after another from the left of the table.

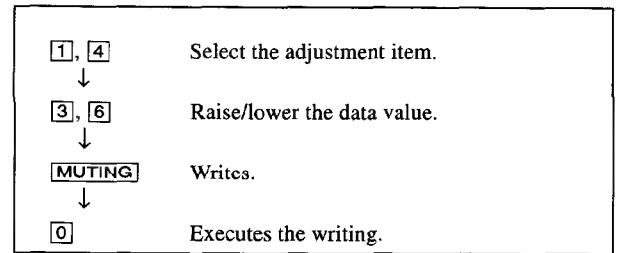
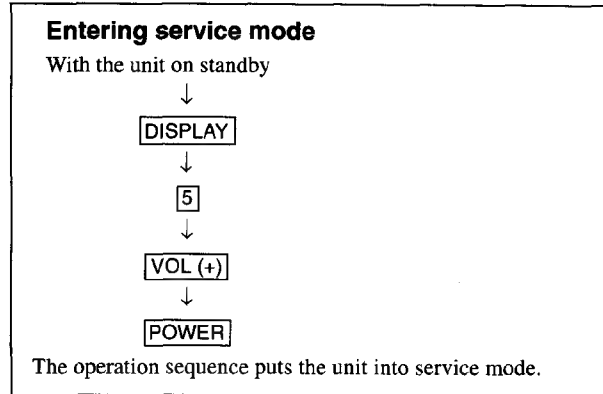
If an error is found, the responding LED will start flickering.

So, if more than 1 device have failed, only the one on the left side will flicker.

## SECTION 5 CIRCUIT ADJUSTMENTS

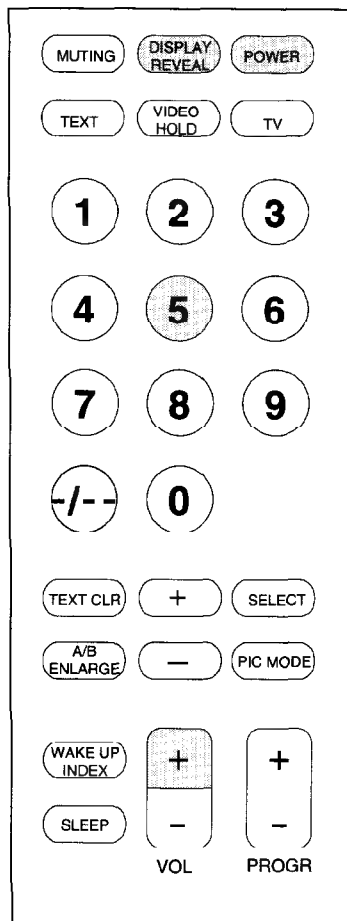
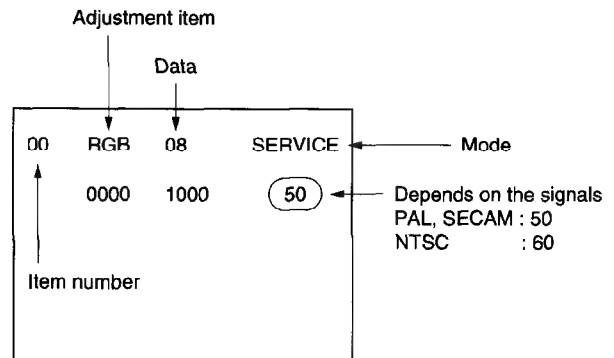
### 5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.



- [7], [0] All the data becomes the values in memory.
- [8], [0] All user control goes to the standard state.
- [5], [0] Service data initialization (Be sure not to use usually.)
- [2], [0] Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :



RM-870



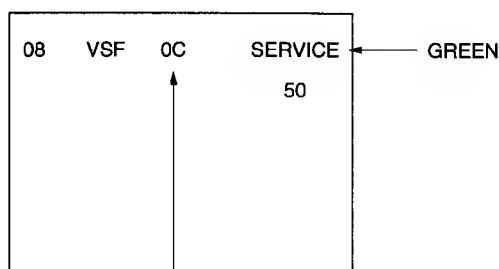
## 5-2. ADJUSTMENT METHOD

Item Number 08

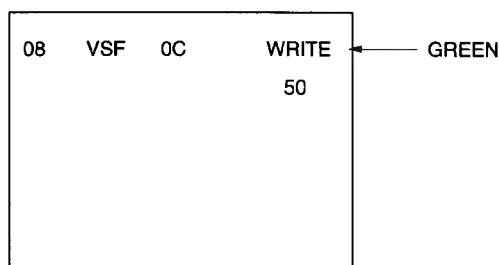
This explanation uses V-SHIFT as an example.

1. Select 08 VSF with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display returns to green SERVICE.)

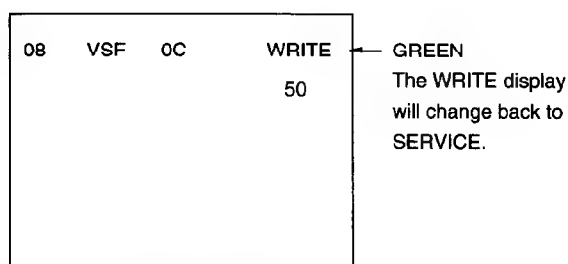
Use the same method for Items Number 00-31. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].



Adjusted with [3] and [6] buttons



Written with [MUTING]



Write executed with [0]

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data			Note	Device
00	HSF	00-3F	24	50: 2C	60: 33		H SHIFT	(TDA8375)
01	HSZ	00-3F	23	50: 30	60: 30		H SIZE	(TDA8375)
02	PAP	00-3F	21	50: 25	60: 25		PIN AMPLITUDE	(TDA8375)
03	CNP	00-3F	29	50: 10	60: 0C		CORNER PIN	(TDA8375)
04	TLT	00-3F	20	50: 20	60: 2D		TILT	(TDA8375)
05	VSL	00-3F	20	50: 1F	60: 1F		V SLOPE	(TDA8375)
06	VAP	00-3F	1D	50: 1C	60: 1B		V AMPLITUDE	(TDA8375)
07	SCR	00-3F	20	50: 16	60: 16		S CORRECTION	(TDA8375)
08	VSF	00-3F	20	50: 15	60: 15		V SHIFT	(TDA8375)
09	RDR	00-3F	25	28			WHITE POINT R	(TDA8375)
0A	GDR	00-3F	20				WHITE POINT G	(TDA8375)
0B	BDR	00-3F	20				WHITE POINT B	(TDA8375)
0C	FO	00-03	00	TV: 00	VIDEO: 00	TEXT: 01	PHI-1 TIME CONSTANT	(TDA8375)
0D	AGC	00-3F	30	TV: 30	VIDEO: 30	TEXT: 30	AGC TAKE OVER	(TDA8375)
0E	VSW	00-01	00	TV: 00	VIDEO: 01	TEXT: 00	VIDEO MUTE	(TDA8375)
0F	FOR	00-03	00	03			FORCED FIELD FREQ.	(TDA8375)
10	DL	00-01	00				INTERLACE	(TDA8375)
11	POC	00-01	00				POC FIX	(TDA8375)
12	VID	00-01	00	50: 00	60: 00		VIDEO IDENT MODE	(TDA8375)
13	HCO	00-01	00	50: 00	60: 00		EHT TRACKING MODE	(TDA8375)
14	EVG	00-01	00	50: 00	60: 00		ENABLE V GUARD	(TDA8375)
15	SBL	00-01	00	50: 00	60: 00		SERVICE BLANKING	(TDA8375)
16	PRD	00-01	00	50: 00	60: 00		OVER-VOLTAGE INPUT	(TDA8375)
17	COR	00-01	00	TV: 00	VIDEO: 00	TEXT: 00	NOISE CORING PEAK	(TDA8375)
18	PMX	00-3F	2D	2B			PICTURE MAX DATA	(TDA8375)
19	PMI	00-3F	00	04			PICTURE MIN DATA	(TDA8375)
1A	SBR	00-7F	4B				SUB-BRIGHTNESS	(TDA8375)
1B	SHU	00-0F	07				SUB-HUE	(TDA8375)
1C	SSH	00-03	01	TV: 01	VIDEO: 02		SUB-SHARPNESS	(TDA8375)
1D	SC1	00-3F	1F	50: 26	60: 29		SUB-COLOR LOWER	(TDA8375)
1E	SC2	00-3F	0D	50: 0C	60: 0D		SUB-COLOR HIGHER	(TDA8375)
1F	AIP	00-7F	3F				ADJUSTMENT IF-PLL	(TDA8375)
20	VZM	00-3F	19				VERTICAL ZOOM	(TDA8375)
21	TXP	00-0F	09	07			TEXT PICTURE CONT.	(SAA5281)
22	MXP	00-0F	0D	0A			TEXT MIX MODE PIC.	(SAA5281)
23	BKP	00-3F	00				BLK OFF PICTURE	(CXP85200)
24	ODL	00-FF	10				POWER ON DELAY	(CXP85200)
25	OFR	00-0F	00				REMO. CON. RGB OUT	(CXP85200)
26	OFM	00-0F	00				MAIN POWER RGB OUT	(CXP85200)
27	OSH	00-3F	0A				OSD POSITION H	(CXP85200)
28	MUT	00-01	01	00			NO SYNC. MUTE	(CXP85200)
29	ABL	00-01	01	00			BRIGHT ABL	(CXP85200)
2A	DIV	00-01	00				DISABLE TV KEY	(CXP85200)
2B	SCM	00-01	01	00			SECAM TRAP ACTIVE	(CXP85200)
2C	ROC	00-0F	07				TILT CENTER VOLTAGE	(CXP85200)
2D	ROS	00-07	03				USER TILT STEP WIDTH	(CXP85200)
2E	DVM	00-01	00				DISABLE VM MUTE	(CXP85200)
2F	POM	00-01	00	01			VOLUME MIN PORT MUTE	(CXP85200)
30	OP0	00-FF	40				OPTION 0	(CXP85200)
31	OP1	00-FF	08				OPTION 1	(CXP85200)

**NOTE**

- **Standard Data:** Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.  
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 ..... 50 Hz data
- 60 ..... 60 Hz data
- Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

**ITEM INFORMATION**

- 10. DL: TV/MIX Mode 0=Interlace 1=Non interlace, TEXT Mode 0=Non interlace 1=Interlace
- 29. ABL: Bright ABL ON/OFF ON=1 OFF=0
- 30. OP0, • 31. OP1 :  
Input data are different according to models.  
AV INPUT : 00 → NO MODEL, 01 → MONO, CXA1315, 10/11 → STEREO, TDA8424  
TV System : 00 → Multi model, 01 → B/G, 11 → B/G, NTSC, SECAM, Chin

**No 30 OP0 \* Input data are different according to models.**

Item	—	AV Input		—	—	—	Arabic	Saudi
KV-2197M5	0	0	1	0	0	0	1	0
KV-2197M5S	0	0	1	0	0	0	1	0

**No 31 OP1**

Item	—	—	—	TV System		NTSC	SECAM	Chin
KV-2197M5	0	0	0	0	1	0	1	0
KV-2197M5S	0	0	0	0	1	0	1	0

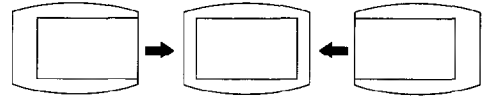
### 5-3. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons **[5]** and **[0]** (Data Initialize), and **[2]** and **[0]** (Data Copy) to initialize the data.
3. Call each item number, and check if the respective screen shows the normal picture.  
In case some items are not well-adjusted, give them fine adjustment.  
Write the data for each item number (**[MUTING]** + **[0]**).
4. Select item numbers "30" (OP0) and "31" (OP1) and set the bit with command buttons **[3]** and **[6]**.
5. Press commander buttons **[8]** and **[0]** (Test Normal) to return all user adjustments to the data that was set on shipment from the factory.  
(= Cancel Service Mode).

### 5-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

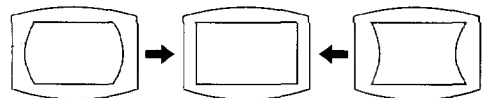
#### 00 HSF (H SHIFT)



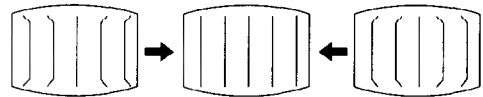
#### 01 HSZ (H SIZE)



#### 02 PAP (PIN AMPLITUDE)



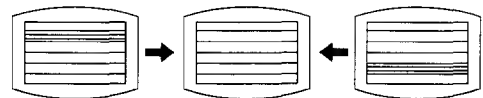
#### 03 CNP (CORNER PIN)



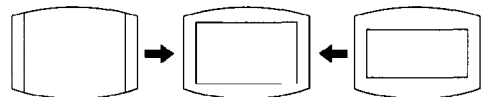
#### 04 TLT (TILT)



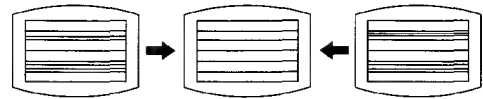
#### 05 VSL (V SLOPE)



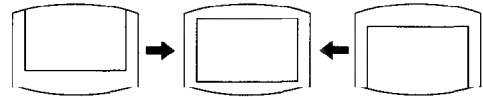
#### 06 VAP (V AMPLITUDE)



#### 07 SCR (S CORRECTION)



#### 08 VSF (V SHIFT)



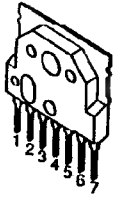
## 6-4. SEMICONDUCTORS

CXP85220A-047S (64PIN)  
ST24C04CB1 (8PIN)  
TDA4665T-T (16PIN)  
TDA8375A (56PIN)  
TDA8395T (20PIN)

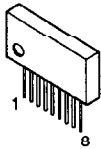


Dual In-line Package  
Pin 6 ~ 98

LA7830



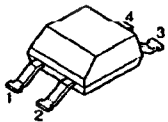
NJM2234L (8PIN)



L78LR05D-MA



PC123F2



PQ09RE11



SBX1790-11

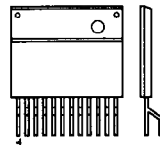


SE115N



STR-S6707

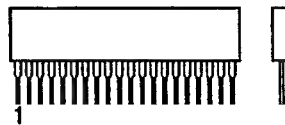
MARKING SIDE VIEW



Zig-zag In-line Package  
Pin 6~99

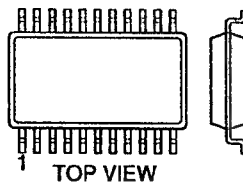
TA8248K

MARKING SIDE VIEW



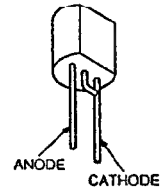
Single In-line Package  
Pin 6 ~ 99

μPC4558G2 (8PIN)



Small Outline L-leaded Package  
Pin 8 ~ 98

μPC574J



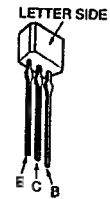
UN2211  
UN2213  
UN2216  
2SA1162-G  
2SD601A-Q



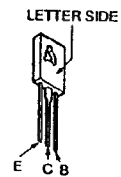
2SA1091-O



2SC2410SN  
2SC2785-HFE



2SC2611



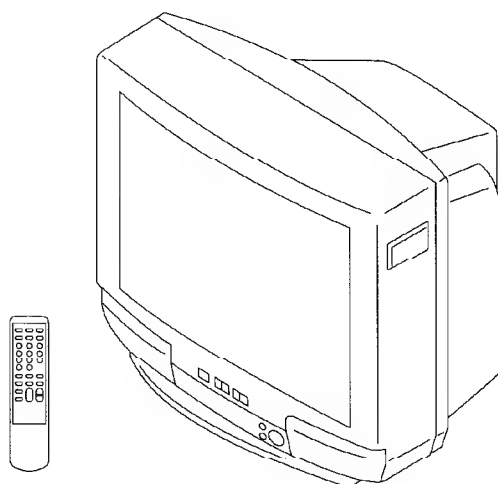
2SC3209LK



# SERVICE MANUAL

## BG-1S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<b>KV-T25MN8</b>	RM-870	Hong Kong	SCC-J16H-A				
<b>KV-T25MN81</b>	RM-870	GE	SCC-J40Q-A				
<b>KV-T25SF8</b>	RM-870	Australia	SCC-J99C-A				
<b>KV-T25SF81</b>	RM-870	New Zealand	SCC-K37C-A				



TRINITRON® COLOR TV  
**SONY®**

**KV-G25M1/G25M11**

RM-870

**SPECIFICATIONS**


		Note
<b>Power requirements</b>	110-240 V AC, 50/60 Hz	
<b>Power consumption (W)</b>	Indicated on the rear of the TV	
<b>Television system</b>	B/G, I, D/K, M	
<b>Color system</b>	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
<b>Channel coverage</b>		
<b>B/G</b>	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
<b>I</b>	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
<b>D/K</b>	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 / CATV: S01 to S03, S1 to S41, Z1 to Z39	KV-G25M11
<b>M</b>	VHF: R1 to R12 / UHF: R21 to R60 / CATV: S01 to S03, S1 to S41	except KV-G25M11
	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+8	KV-G25M11
	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-1, A to D, F to W+21, W+23 to W+84	except KV-G25M11
<b>Audio output (speaker)</b>	5W	
<b>Inputs</b>	Antenna: 75 ohms VIDEO IN jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
<b>Outputs</b>	Earphone jack: minijack MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
<b>Picture tube</b>	25 in.	
<b>Tube size (cm)</b>	64	Measured diagonally
<b>Screen size (cm)</b>	60	Measured diagonally
<b>Dimensions (w/h/d, mm)</b>	613 × 542 × 472	
<b>Mass (kg)</b>	32	

Design and specifications are subject to change without notice.

**CAUTION**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

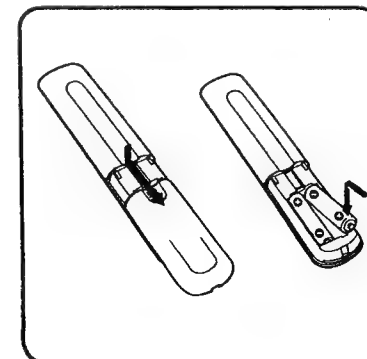
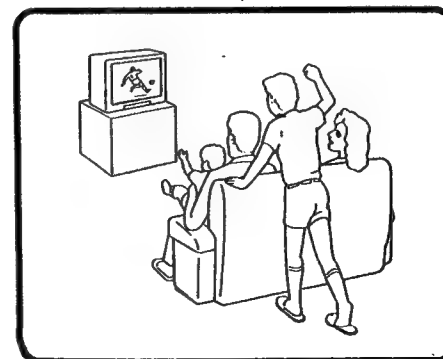
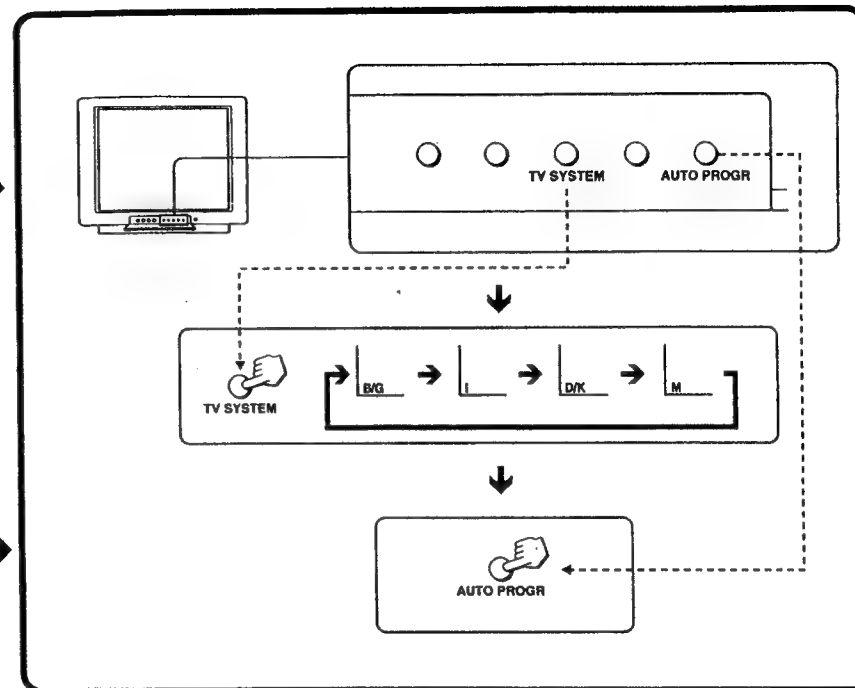
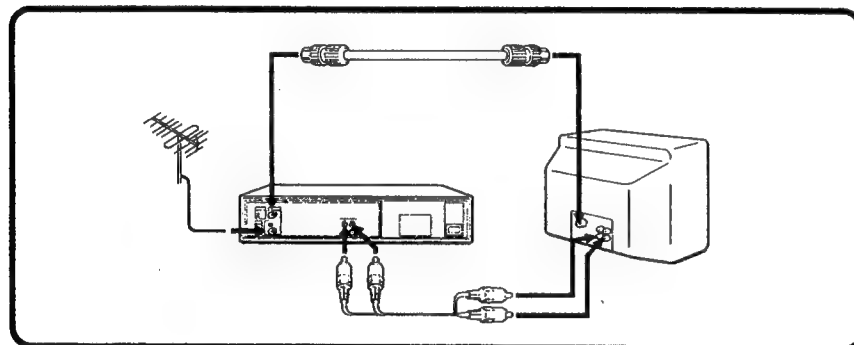
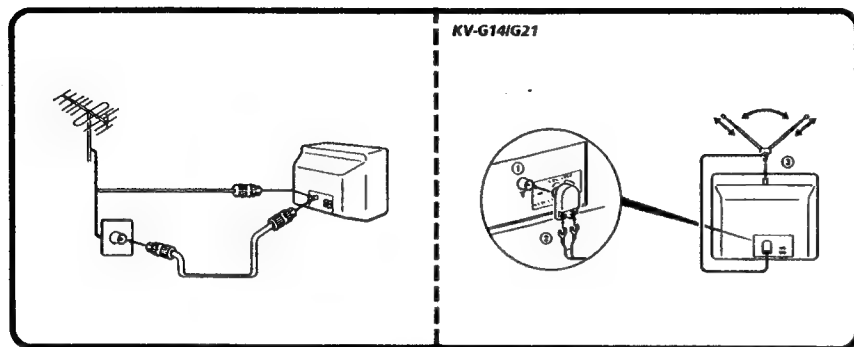
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## SECTION 1 GENERAL

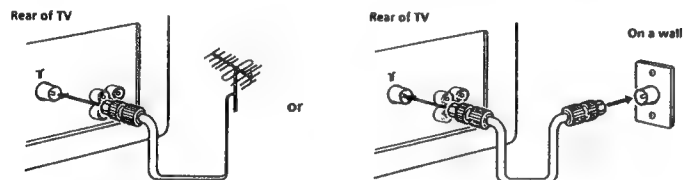
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.



## Connections

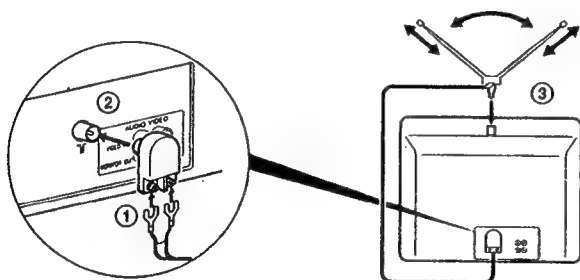
### Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable.  
Plug the connector into the **Y** (antenna) socket at the rear of the TV.



### Connecting an indoor antenna

■ KV-G14IG21



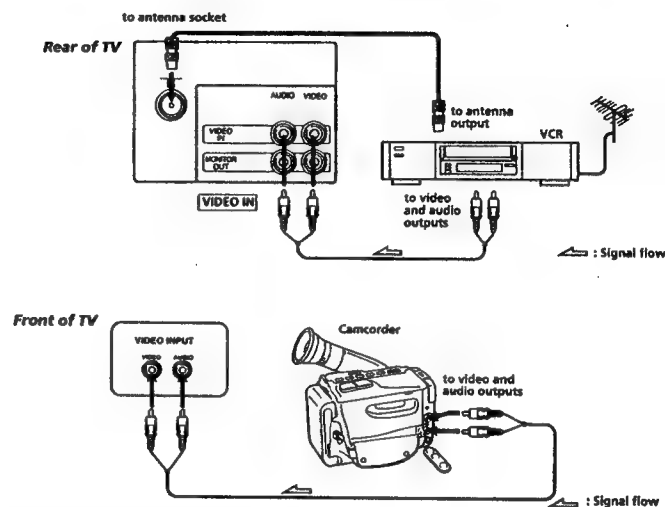
**Note**

- You are advised to use an outdoor antenna for better reception.

### Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, or video game.

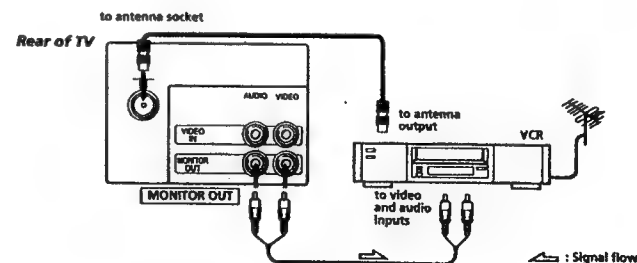
#### Connecting video equipment using VIDEO IN jacks



#### When using the video input jacks

Do not connect video equipment to the VIDEO input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

#### Connecting audio/video equipment using MONITOR OUT jacks



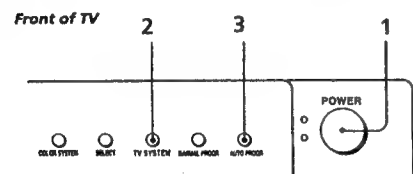
#### When recording through the MONITOR OUT jacks

If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

## Presetting channels

### Presetting channels automatically

You can preset up to 80 TV channels in numerical sequence from program position 1.

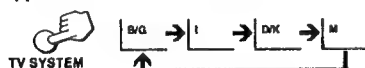


#### 1 Press POWER.

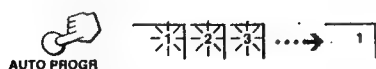


When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

#### 2 Press TV SYSTEM until your local TV system appears.



#### 3 Press AUTO PROG.



To start presetting channels automatically from the specified program position

- 1 Press MANUAL PROG.
- 2 Press TV SYSTEM to select your local TV system.
- 3 Press PROGR +/- to select the program position.
- 4 Press AUTO PROG.

6-EN Getting Started

### Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

#### 1 Press MANUAL PROG.

#### 2 Press PROGR +/- until the required program position appears on the screen.

#### 3 Press TV SYSTEM until your local TV system appears.

#### 4 Press VOLUME +/- on the TV until the required channel picture appears on the screen.

#### 5 Press MANUAL PROG.

If the TV system is not properly selected  
The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

- 1 Press PROGR +/- to select the program position.
- 2 Press TV SYSTEM until the picture and sound become normal.

#### Notes

- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the TV SYSTEM is memorized for each program position.

### Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

#### 1 Press PROGR +/- until the unused or unwanted program position appears on the screen.

#### 2 Press MANUAL PROG.

#### 3 Press PIC MODE on the remote commander.

#### 4 Press MANUAL PROG.

#### To cancel the skip setting

Preset the channel manually or automatically again.

## Operations

## Watching the TV

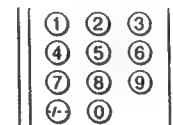
#### 1 Press POWER to turn the TV on.



When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

#### 2 Select the TV channel you want to watch.

To select a channel directly  
Press a number button.



To select a two-digit channel, press "-/-" before the number buttons.  
For example: to select channel 25, press "-/-" and then "2" and "5."



#### To scan through channels

Press PROGR +/- until the channel you want appears.

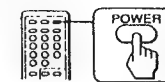


#### 3 Press VOL +/- to adjust the volume.



### Switching off the TV

To switch off the TV temporarily, press POWER on the remote commander.



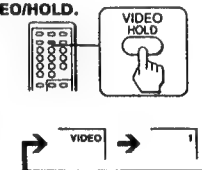
To switch off the TV completely, press POWER on the TV.

If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

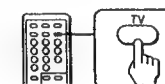


### Watching the video input

Press VIDEO/HOLD.

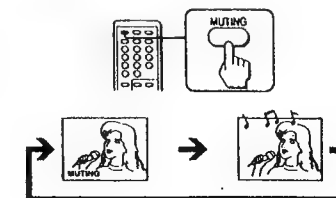


To watch TV, press TV.



### Muting the sound

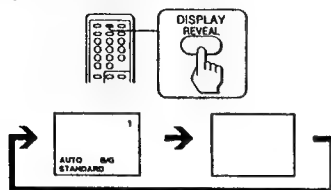
Press MUTING.



## Displaying on-screen information

Press **DISPLAY/REVEAL**.

The program position, local system, and TV settings are displayed on the screen.

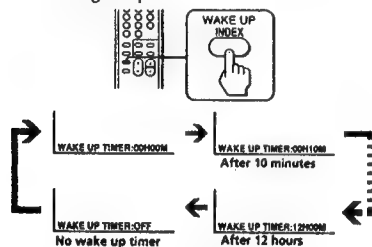


## Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

**1 Press WAKE UP/INDEX repeatedly to set the timer.**

The on-screen display appears and the WAKE UP Indicator lights up.



**2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.**

**3 Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.**

To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

### Notes

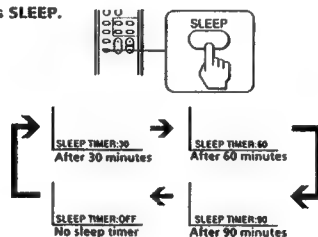
- The Wake Up Timer starts immediately after the on-screen display disappears.

- The last TV program position or video mode just before the TV turns into Standby mode will appear when the TV turns on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to continue watching the TV, press any button or control on the TV or remote commander.

## Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

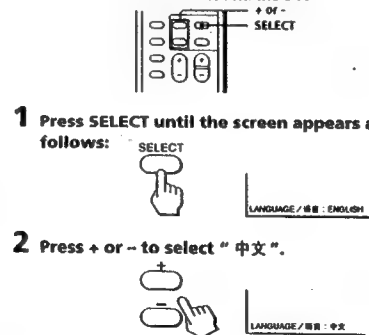
Press **SLEEP**.



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

## Changing the on-screen display language

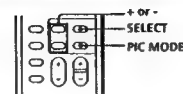
If you prefer Chinese to English, you can change the on-screen display language. You can use buttons on both the remote commander and the TV.



### Note

- You can also use VOLUME +/- on the TV to select the on-screen display language.

## Adjusting the picture

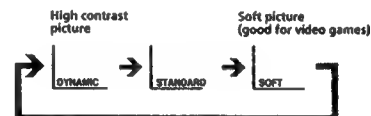


## Selecting the picture mode

Press **PIC MODE** until the mode you want appears.



Each time you press PIC MODE, the screen changes as follow:



### Note

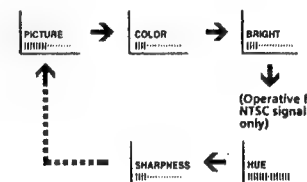
- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

## Adjusting the picture setting

**1 Press SELECT until the item you want to adjust appears.**



Each time you press SELECT, the screen changes as follows:



**2 Press +/- to adjust the item.**



**3 To adjust other items, repeat steps 1 and 2.**

### Note

- You can also use VOLUME +/- on the TV to adjust the picture setting.

### If the color of the picture is abnormal

When receiving programs through the "I" terminal: Press TV SYSTEM or COLOR SYSTEM or adjust the color setting until the color becomes normal.

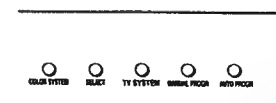
### Note

- Normally set COLOR SYSTEM to AUTO.

### If the sound is distorted or noisy

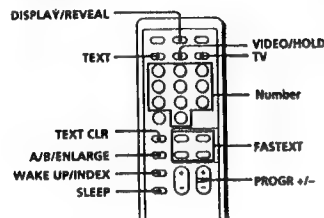
When receiving programs through the "I" terminal: Press TV SYSTEM until the sound becomes clear.

### Front of TV



## Viewing Teletext

### KV-G25M11 only



### Displaying Teletext

- 1 Select a TV channel which carries the Teletext broadcast you want to watch.
- 2 Press TEXT to display the Teletext. A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 100 is displayed at the top left corner of the screen.

To cancel the Teletext display, press TV.

### Superimposing a Teletext page on the TV picture

Press TEXT. Each time you press TEXT, the screen changes as follows:



### Checking the contents of a Teletext service (INDEX)

Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

### Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander.

Press the color button which corresponds to the color-coded menu.

The page is displayed after a few seconds.

### Selecting a Teletext page

To input the three-digit page number of the Teletext page, press the number buttons.

If you make a mistake, key in the correct page number again.

To access the next or previous page, press PROGR +/-.

### Holding a Teletext page (subpage)

Press VIDEO/HOLD.

The HOLD symbol "CB" is displayed at the top left corner of the screen.

To resume normal Teletext operation, press VIDEO/HOLD again or TEXT.

### Revealing concealed information

Press DISPLAY/REVEAL.

To conceal the information, press DISPLAY/REVEAL again.

### Enlarging the Teletext display

Press A/B/ENLARGE.

Each time you press A/B/ENLARGE, the Teletext display changes as follows:



### Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

- 1 Key in the page number of the Teletext that you want to refer, then press TEXT CLR.
- 2 When the page number is displayed on the screen, press TEXT to switch the Teletext on.

## Additional Information

## Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest authorized service center or dealer.

### Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the TV and on the wall.
- Check the TV SYSTEM setting.

### Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

### Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

### Note on the remote commander

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

### Good picture Noisy sound



- Check the TV SYSTEM setting.

### No picture No sound



- Press POWER.
- Check the antenna connection.
- Check the VCR connections.
- Check the power cord connection.
- Check the standby mode.

### Good picture No sound



- Press VOLUME +
- Press MUTING.

### No color



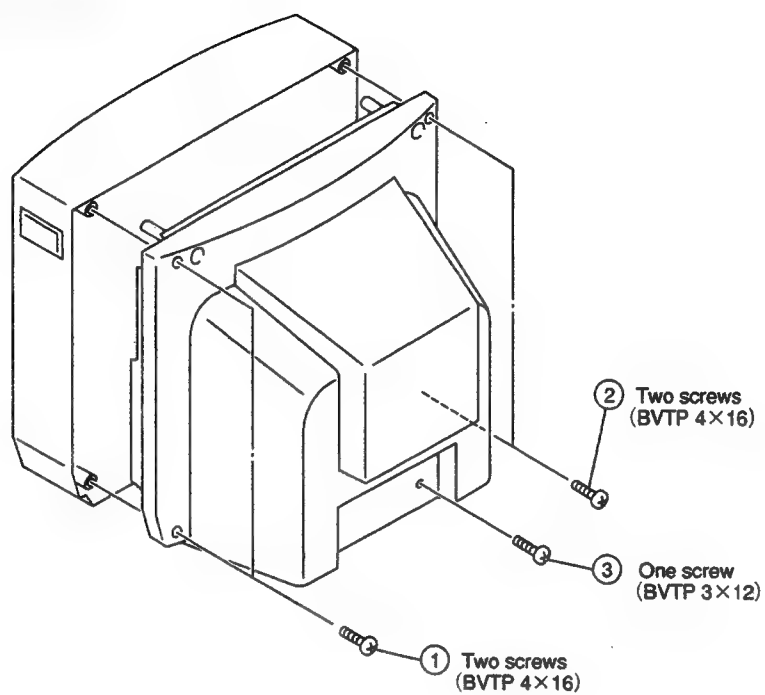
- Adjust the COLOR level in the on-screen display.
- Check the COLOR SYSTEM setting.

### TV cabinet creaks

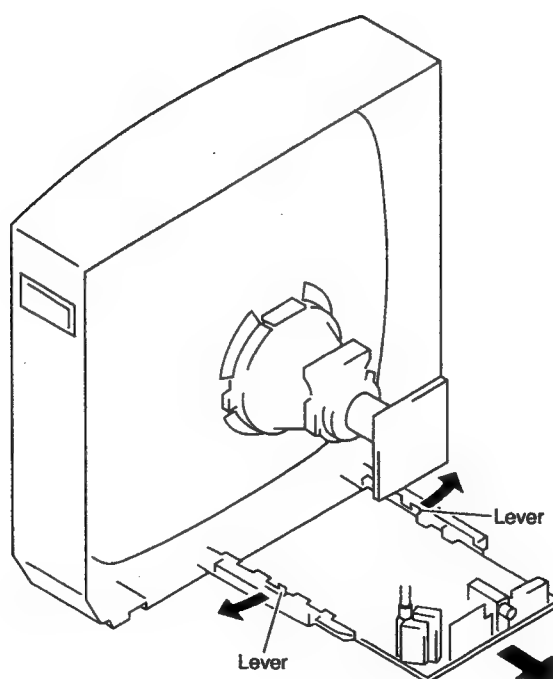
- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

## SECTION 2 DISASSEMBLY

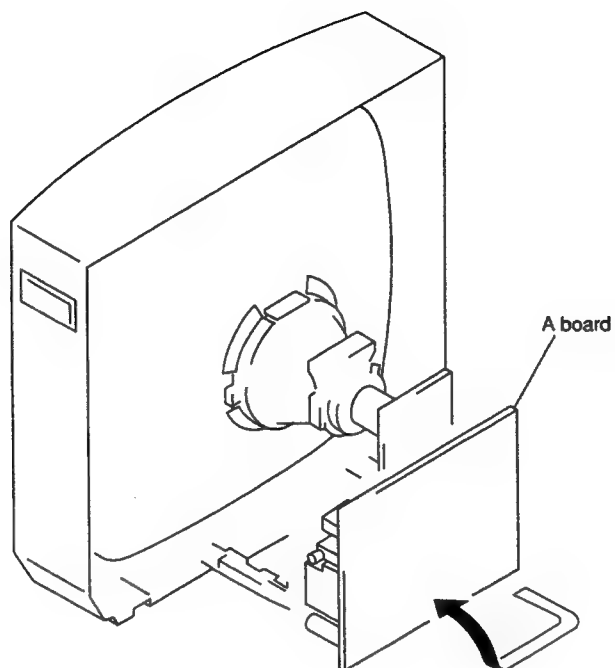
### 1. REAR COVER REMOVAL



### 2. A BOARD REMOVAL



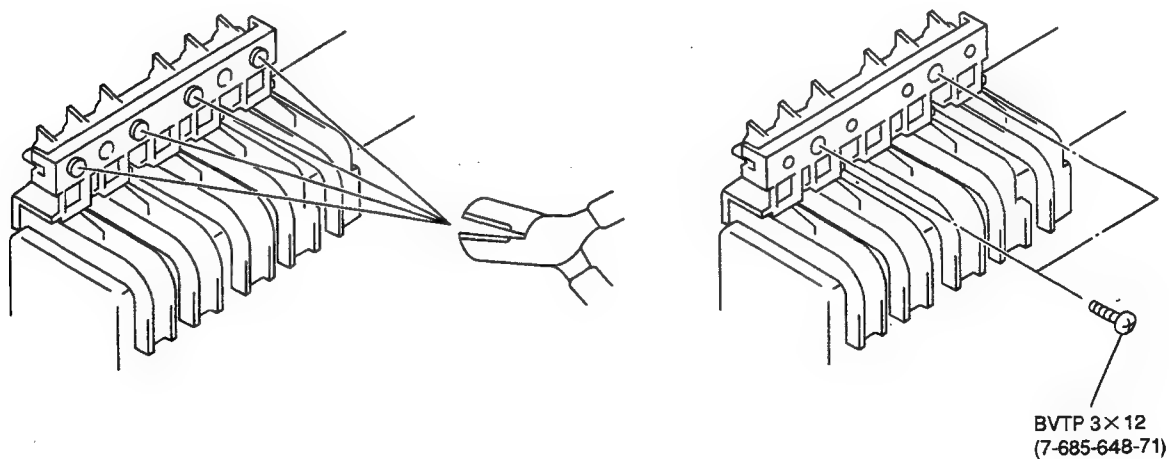
### 2-3. SERVICE POSITION



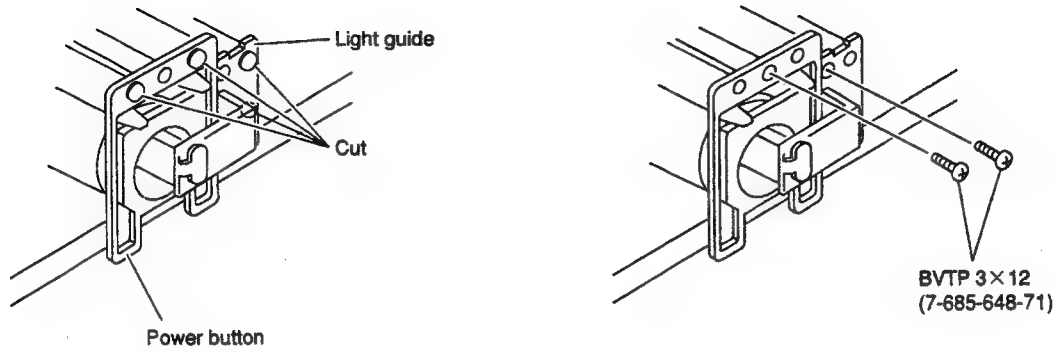
### 2-4. REPLACEMENT OF PARTS

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

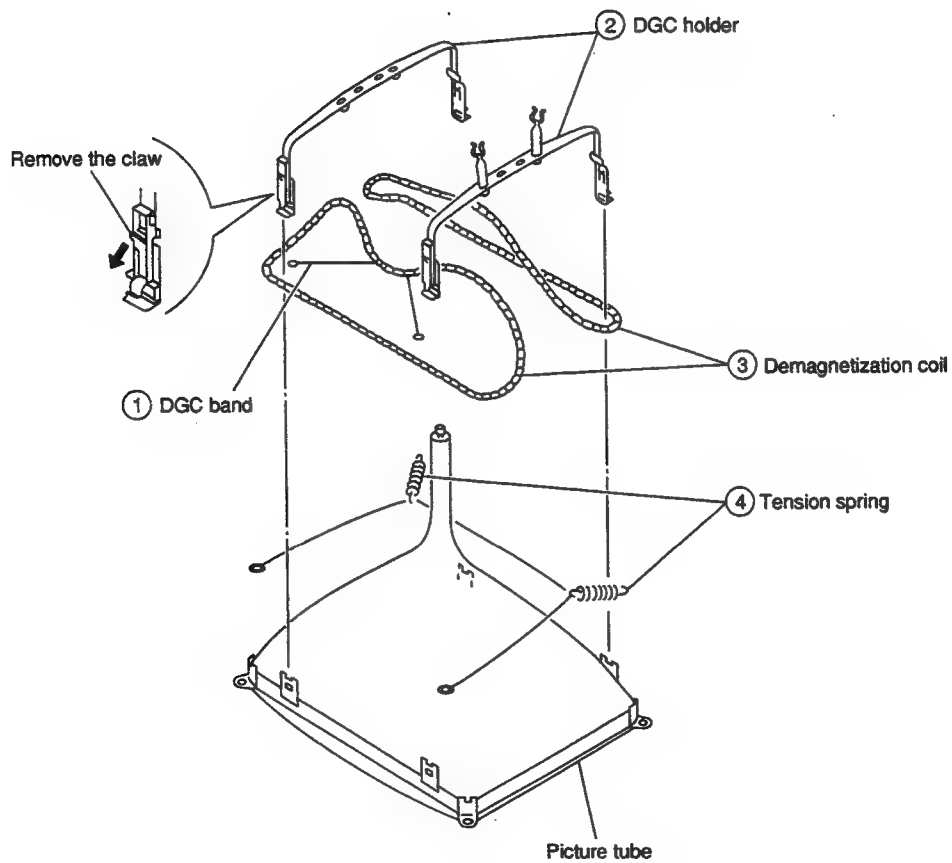
#### 2-4-1. REPLACEMENT OF MULTI BUTTON



## 4-2. REPLACEMENT OF LIGHT GUIDE, POWER BUTTON

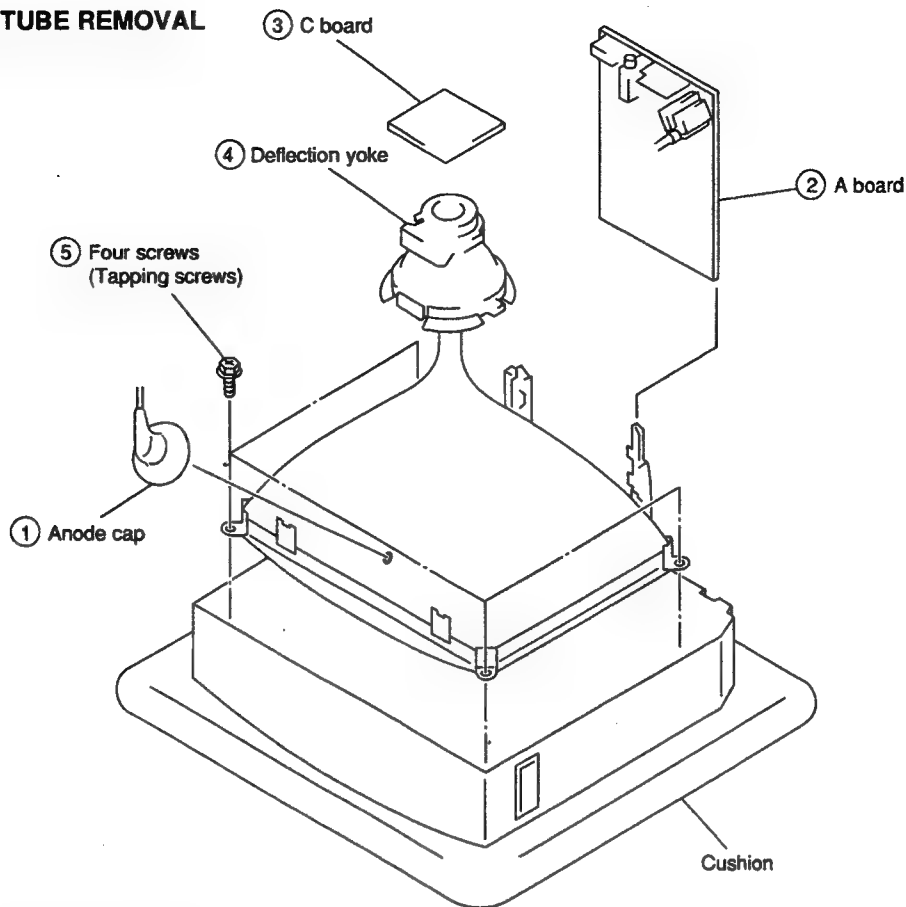


## 2-5. DEMAGNETIZATION COIL REMOVAL





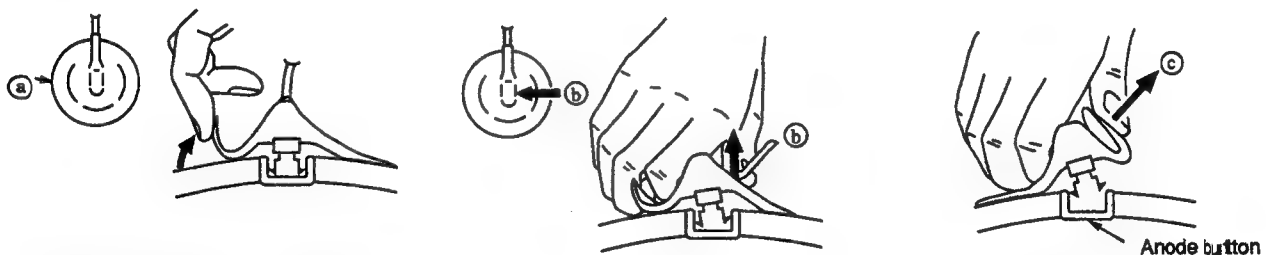
## 2-6. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

### • REMOVING PROCEDURES



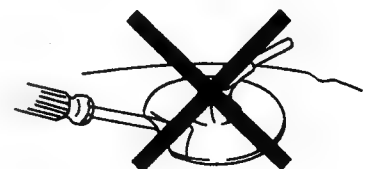
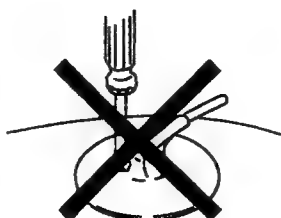
① Turn up one side of the rubber cap in the direction indicated by the arrow (a).

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :

PICTURE control..... normal  
BRIGHTNESS control..... normal

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

### Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.  
Contrast } normal  
Brightness }
2. Set the pattern generator raster signal to green.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.  
(See Figures 3-1 through 3-3.)
4. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.  
If the beam does not land correctly in all the corners, use a magnet to adjust it.  
(See Figure 3-4.)

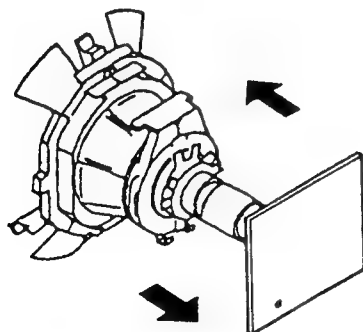


Fig. 3-1

Purity control

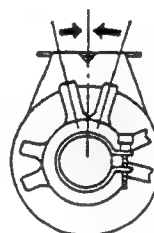


Fig. 3-2

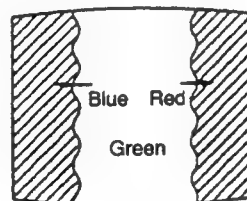


Fig. 3-3

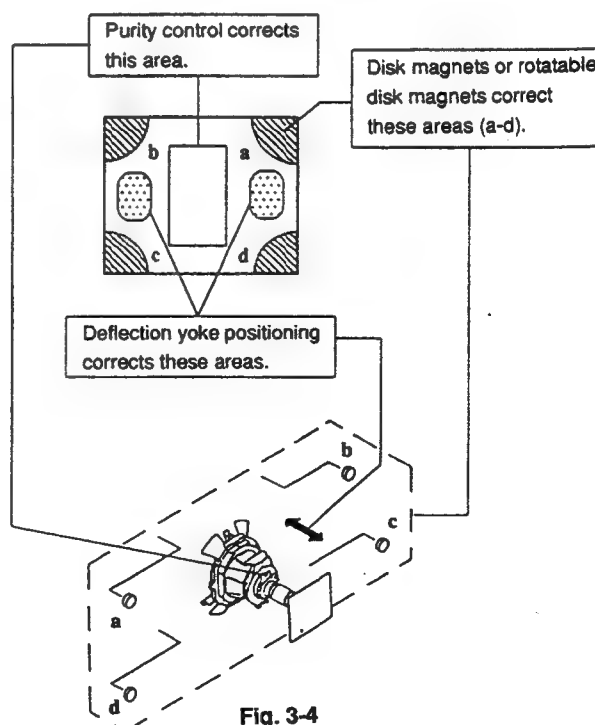


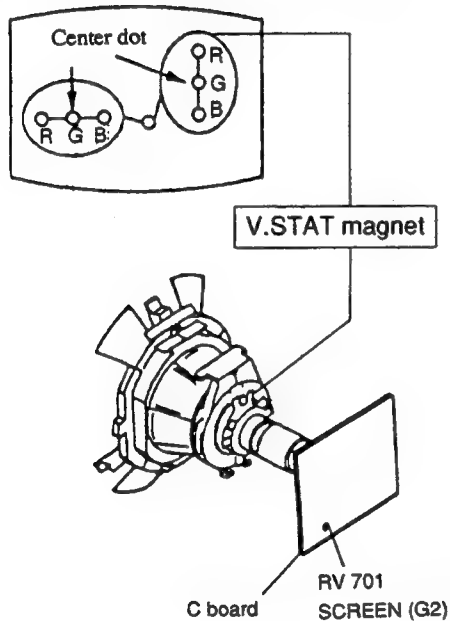
Fig. 3-4

### 3-2. CONVERGENCE

#### Preparations :

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

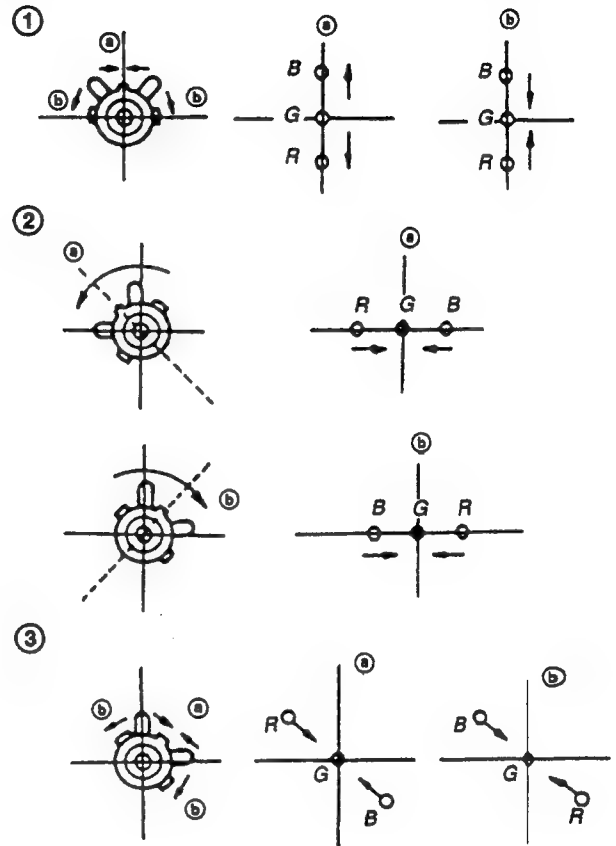
#### (1) Horizontal and Vertical Static Convergence



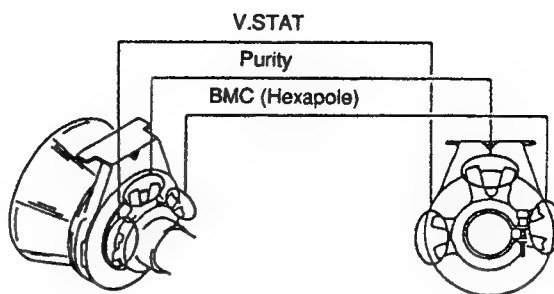
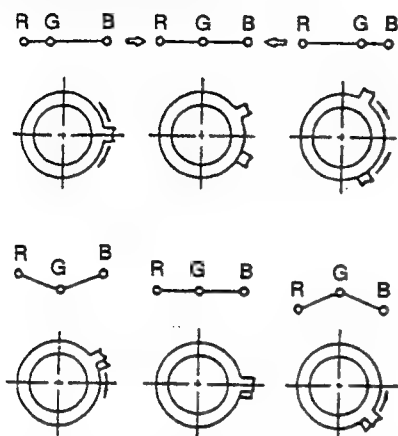
1. (Moving vertically), adjust the V-STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
  2. (Moving horizontally), adjust the V-STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- Tilt the V-STAT magnet and adjust the static convergence by opening or closing the V-STAT magnet.



3. If the V-STAT magnet is moved in the direction of the ① and ② arrows, the red, green, and blue points move as shown below.



### Operation of BMC (Hexapole) Magnet.

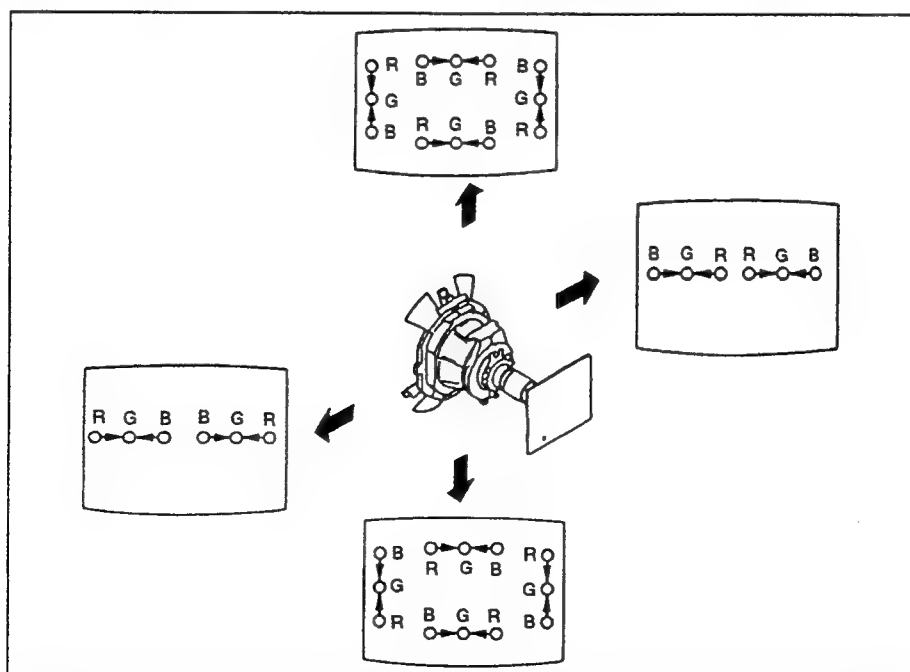


- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking. Use the V.STAT magnet to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

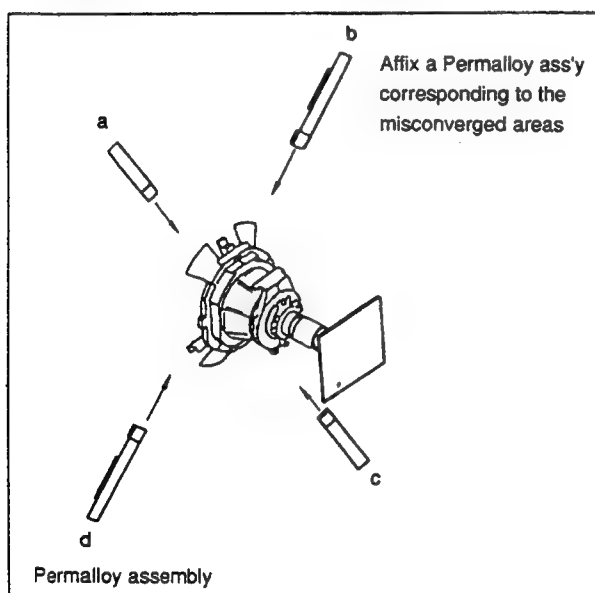
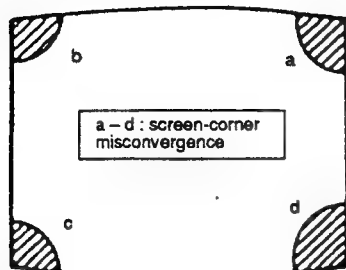
### Dynamic Convergence Adjustment

#### Preparations :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- Slightly loosen the deflection yoke screws.
  - Remove the deflection yoke spacer.
  - Move the deflection yoke as shown in the figure below and optimize the convergence.
  - Tighten the deflection yoke screws.
  - Install the deflection yoke spacer.

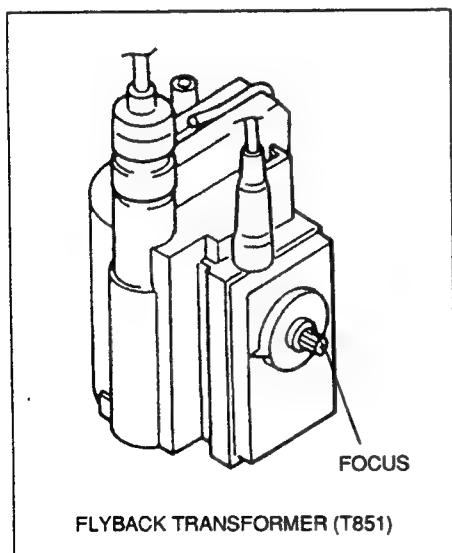


**(3) Screen-corner Convergence**



**3-3. FOCUS ADJUSTMENT**

Adjust FOCUS control on the flyback transformer for a best focus.



**a. AN ITEM OF ADJUSTMENT**

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

**b. METHOD OF CANCELLATION FROM SERVICE MODE**

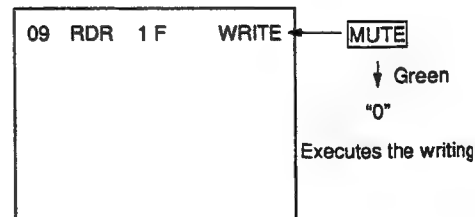
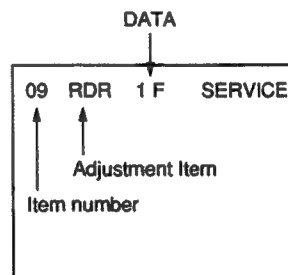
Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

**c. METHOD OF WRITE FOR MEMORY**

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
- 3) Press **MUTE** button indicate WRITE (Green) on screen.
- 4) Press **0** button to write into memory.

**d. MEMORY WRITE CONFIRMATION METHOD**

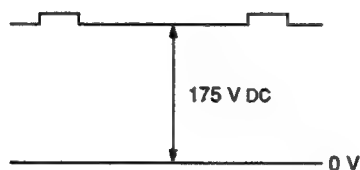
- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.



#### 4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

##### 1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G, and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (RV701) volume to the value below.



##### 2. WHITE BALANCE ADJUSTMENTS

- 1) Set the Service Mode.
- 2) Input an entire white signal.
- 3) Set the PICTURE to maximum.
- 4) Select RDR(09) with **[1]** and **[4]**, and then set the level to 25 with **[3]** and **[6]**.
- 5) Select GDR(0A) and BDR(0B) with **[1]** and **[4]** and adjust the level with **[3]** and **[6]** for the best white balance.
- 6) Write into the memory by pressing **[MUTE]** → then **[0]**.

## SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. ADJUSTMENTS WITH COMMANDER

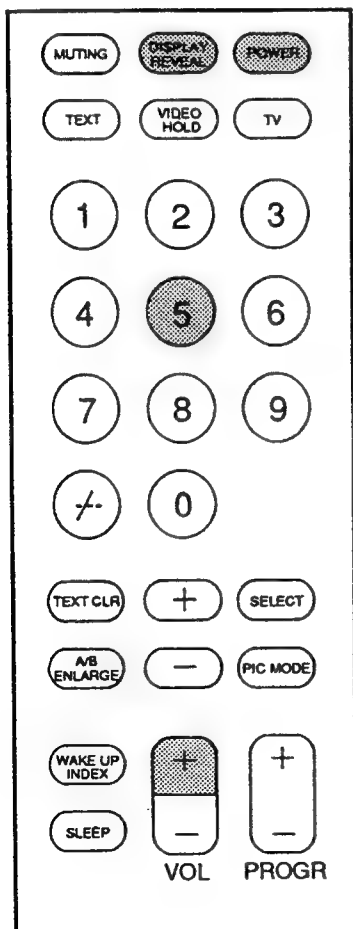
Service adjustments are made with the RM-870 that comes with this unit.

#### Entering service mode

With the unit on standby

↓  
"DISPLAY"  
↓  
"5"  
↓  
"VOL (+)"  
↓  
"POWER"

The operation sequence puts the unit into service mode.

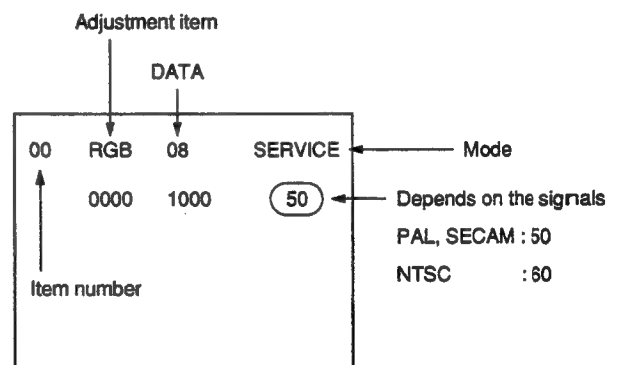


RM-870

"1", "4"	Raise/lower the service item number
"3", "6"	Raise/lower the data
"MUTING"	Writes
"0"	Executes the writing

"7", "0"	The data all becomes the values in memory
"8", "0"	User control all goes to the standard state
"5", "0"	Service data initialization (Besure not to use usually.)
"2", "0"	Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :



"1", "4"	Select the adjustment item.
↓	
"3", "6"	Raise/lower the data.
↓	
"MUTING"	Writes
↓	
"0"	Executes the writing.

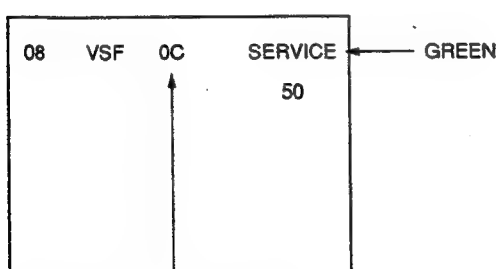
## 4-2. ADJUSTMENT METHOD

Item Number 08

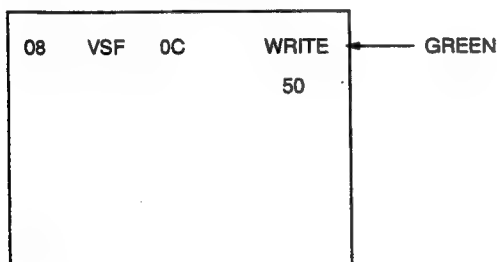
This explanation uses V-SHIFT as an example.

1. Select 08 V-SHIFT with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum state. (The standard is for OF PAL reception.)
4. Write with the MUTE button.
5. Execute the writing with the "0" button. (The WRITE display.)

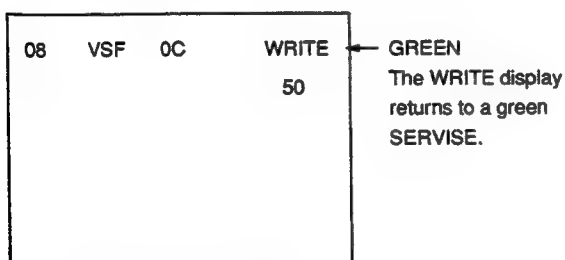
Use the same method for Items Number 00-40. Use "1" and "4" to select the adjustment item, use "3" and "6" to adjust, write with "MUTE", then execute the write with "0".



Adjusted with "3" and "6" buttons



Written with "MUTE"



Write executed with "0"



**KV-G25M1/G25M11**  
RM-870

**Adjustment Item Table**

Item number	Adjustment Item	Data range	Initial data	Standard data		Note	Device
00	HSF	00~3F	24	50: 21	60: 26	H SHIFT	(TDA8366)
01	HSZ	00~3F	23	50: 27	60: 28	H SIZE	(TDA8366)
02	PAP	00~3F	21	50: 25	60: 25	PIN AMPLITUDE	(TDA8366)
03	CNP	00~3F	29	50: 2D	60: 2F	CORNER PIN	(TDA8366)
04	TLT	00~3F	20	50: 24	60: 20	TILT	(TDA8366)
05	VSL	00~3F	20	50: 21	60: 21	V SLOPE	(TDA8366)
06	VAP	00~3F	1D	50: 3E	60: 3F	V AMPLITUDE	(TDA8366)
07	SCR	00~3F	20	50: 29	60: 29	S CORRECTION	(TDA8366)
08	VSF	00~3F	20	50: 39	60: 3A	V SHIFT	(TDA8366)
09	RDR	00~3F	25	25 (Fix)		WHITE POINT R	(TDA8366)
0A	GDR	00~3F	20	20		WHITE POINT G	(TDA8366)
0B	BDR	00~3F	20	20		WHITE POINT B	(TDA8366)
0C	YDL	00~0F	00	00		Y DELAY ADJUSTMENT	(TDA8366)
0D	FO	00~02	00	TV: 00	VIDEO: 00	PHI-1TIME CONSTANT	(TDA8366)
0E	AGC	00~3F	06	TV: 06	VIDEO: 06	AGC TAKE OVER	(TDA8366)
0F	VSW	00~01	01	TV: 00	VIDEO: 01	VIDEO MUTE	(TDA8366)
10	FOR	00~03	00	0		FORCED FIELD FREQ.	(TDA8366)
11	DL	00~01	00	0		INTERLACE	(TDA8366)
12	POC	00~01	00	0		SYNCHRONISATION	(TDA8366)
13	NCI	00~01	00	50: 00	60: 00	V DIVIDER MODE	(TDA8366)
14	VID	00~01	00	50: 00	60: 00	VIDEO IDENT MODE	(TDA8366)
15	HCO	00~01	00	50: 00	60: 00	EHT TRACKING MODE	(TDA8366)
16	EVG	00~01	00	50: 00	60: 00	ENABLE V GUARD	(TDA8366)
17	SBL	00~01	00	50: 00	60: 00	SERVICE BLANKING	(TDA8366)
18	PRD	00~01	00	50: 00	60: 00	OVER-VOLTAGE INPUT	(TDA8366)
19	EXP	00~03	00	00		V DEFLECTION MODE	(TDA8366)
1A	SFM	00~01	01	01		H FREQ. DURING SWON	(TDA8366)
1B	PHL	00~01	00	00		COLOR X-TAL PLL	(TDA8366)
1C	COR	00~01	00	00		NOISE CORING PEAK	(TDA8366)
1D	PMX	00~3F	20	20		PICTURE MAX DATA	(TDA8366)
1E	SBR	00~7F	4B	53		SUB-BRIGHTNESS	(TDA8366)
1F	SHU	00~0F	07	07		SUB-HUE	(TDA8366)
20	SSH	00~03	01	TV: 01	VIDEO: 03	SUB-SHARPNESS	(TDA8366)
21	SCL	00~3F	3F	50: 3F	60: 3F	SUB-COLOR	(TDA8366)
22	TXP	00~0F	09	09		Text Picture cont.	(SAA52B1)
23	MXP	00~0F	0B	0B		Text Mix mode Pic.	(SAA52B1)
24	ODL	00~FF	10	10		Power ON Delay	(CXP85200)
25	OFR	00~0F	00	00		Remo. con. RGB OUT	(CXP85200)
26	OFM	00~0F	00	00		Main power RGB OUT	(CXP85200)
27	OSH	00~3F	0A	06		OSD Position H	(CXP85200)
28	MUT	00~01	01	00		No Sync. Mute	(CXP85200)
29	ABL	00~01	01	01		Bright ABL	(CXP85200)
2A	OP0	00~FF	40	2B		Option 0	(CXP85200)
2B	OP1	00~FF	07	07		Option 1	(CXP85200)

※ 50 ... 50Hz data 60 ... 60Hz data

※ Standard data listed on the Adjustment Item Table are reference values, therefore differ per model.

**No 2A OP0 \* Input data are different according to models.**

-	AV Input		-	-	-	-	Saudi
0	0	1	0	0	0	0	0

**No 2B OP1**

-	-	-	TV System		NTSC	SECAM	Chin
0	0	0	0	0	1	1	1

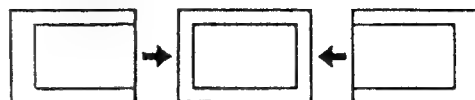
### 4-3. A BOARD, ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons "5" and "0" (Data Initialize), and "2" and "0" (Data Copy) to initialize the data.
3. Call each item number, and check if the respective screen shows the normal picture.  
In case some items are not well-adjusted, give them fine adjustment.  
Write the data per each item number (MUTE + 0).
4. Select item numbers "2A" (OP0) and "2B" (OP1) for mono, and 3F (OP0) and "40" (OP1) for STEREO, and respectively set the bit per model with command buttons "3" and "6".
5. Press commander buttons "8" and "0" (Test Normal) to return to the data that was set on the shipment from the factory.  
(= Cancel Service Mode.)

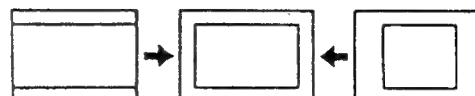
### 4-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

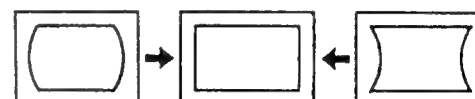
#### 00 HSF (H.SHIFT)



#### 01 HSZ (H SIZE)



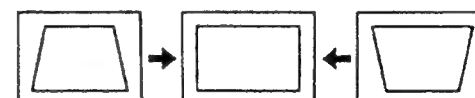
#### 02 PAP (PIN AMP)



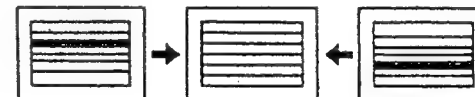
#### 03 CNP (CORNER PIN)



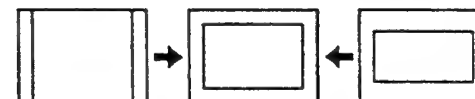
#### 04 TLT (TILT)



#### 05 VSL (V SLOP)



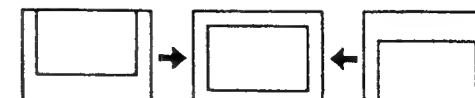
#### 06 VAP (V AMP)



#### 07 SCR (S CORRECTION)



#### 08 VSF (V SHIFT)



**MEMO**

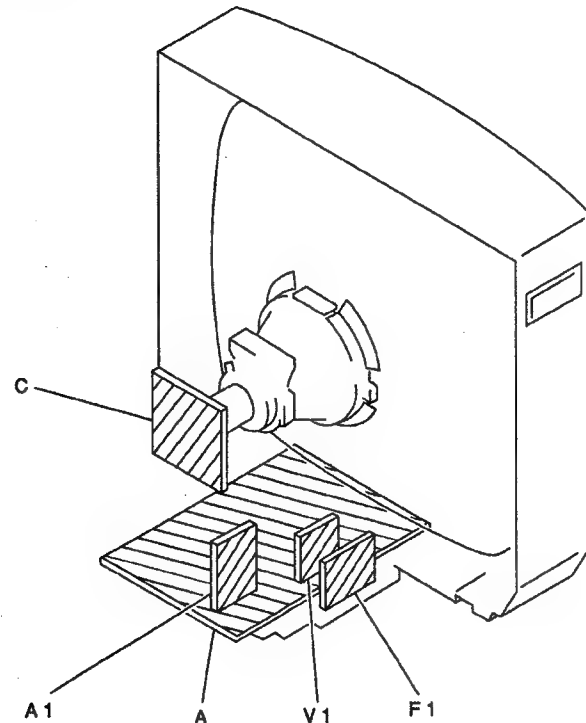
[illegible]

**KV-G25M1/G25M11**  
RM-870

**KV-G25M1/G25M11**  
**RM-870**



## 5-2. CIRCUIT BOARDS LOCATION



## 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

## Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  
 $k\Omega = 100\Omega$ ,  $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.  
no mark : PAL  
( ) : SECAM  
( ) : NTSC 4.43
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Can not be measured.
- Circled numbers are waveform reference.
- : B + bus.
- - - : B - bus.
- : signal path.

## Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark are critical for safety. Replace only with part number specified.

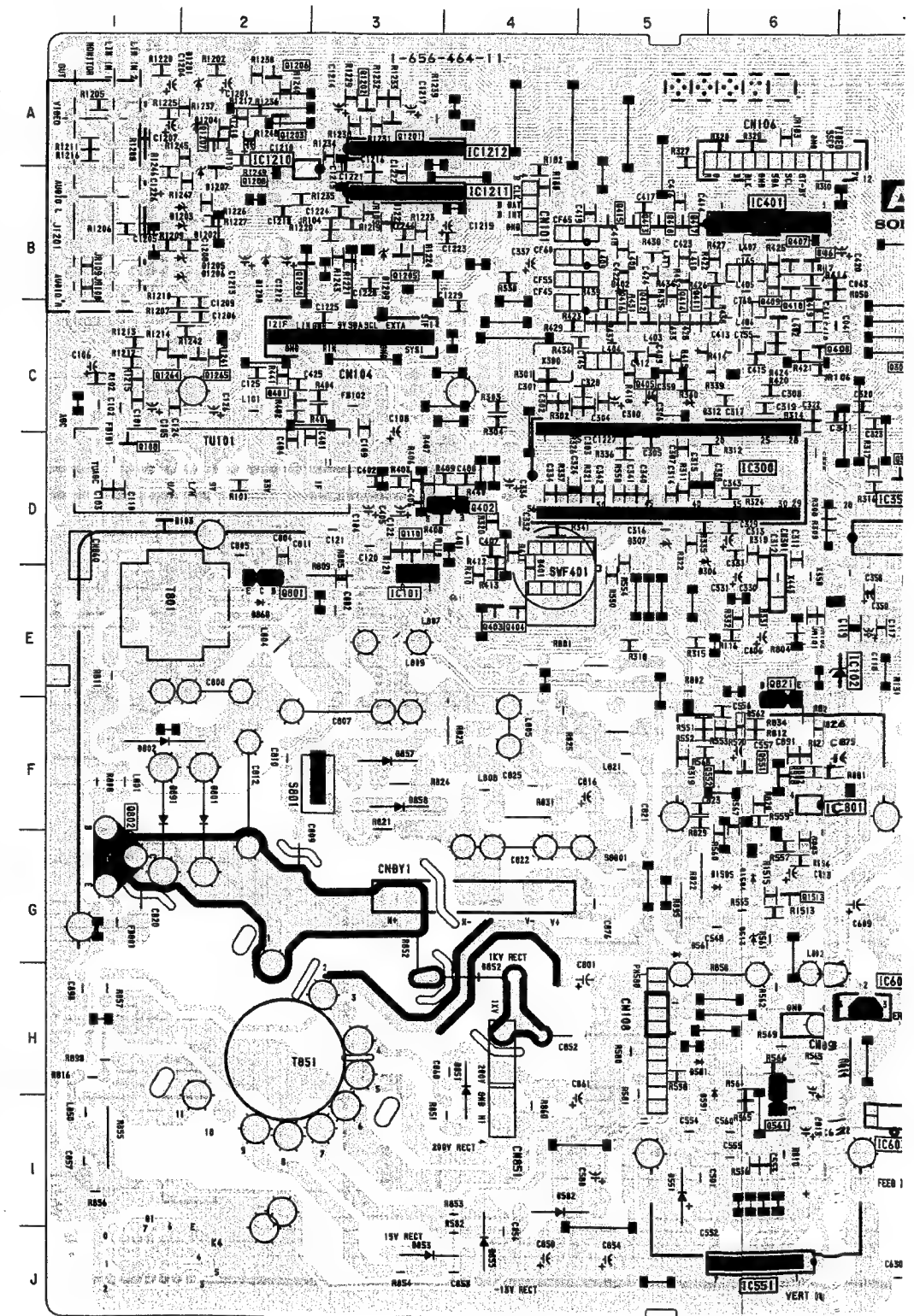
## PRINTED WIRING BOARD

## A BOARD

IC		Q1208 B-2	Q1265 C-2	Q1513 G-6
		DIODE		
IC001	D-11	D001	D-9	
IC002	E-10	D002	C-12	
IC003	E-11	D003	C-10	
IC004	I-13	D004	E-12	
IC102	E-7	D005	E-8	
IC203	B-10	D101	B-8	
IC300	D-6	D102	B-9	
IC351	D-8	D103	D-1	
IC354	D-7	D251	B-8	
IC401	B-6	D252	B-13	
IC521	E-8	D301	C-7	
IC551	J-6	D302	D-8	
IC601	J-8	D303	D-8	
IC602	H-7	D304	C-8	
IC603	I-7	D305	D-7	
IC801	F-6	D306	D-6	
IC1210	A-2	D307	D-5	
TRANSISTOR		D308	C-10	
Q030	C-12	D310	D-8	
Q031	C-8	D311	D-8	
Q108	D-1	D312	C-5	
Q109	E-12	D313	D-8	
Q110	D-3	D314	D-8	
Q202	B-8	D351	E-8	
Q207	B-10	D401	D-4	
Q208	B-10	D402	B-5	
Q210	B-9	D403	B-9	
Q301	C-7	D513	G-6	
Q302	D-7	D551	I-5	
Q303	C-8	D561	G-5	
Q402	D-4	D591	H-6	
Q403	E-4	D601	G-11	
Q404	E-4	D602	G-11	
Q405	C-5	D603	G-11	
Q406	B-6	D604	G-8	
Q407	B-6	D605	G-8	
Q408	C-6	D606	F-9	
Q409	C-6	D607	I-8	
Q410	B-6	D609	I-9	
Q411	C-6	D610	H-7	
Q412	C-5	D611	I-8	
Q413	B-5	D801	F-2	
Q414	C-5	D802	F-1	
Q415	B-5	D851	H-4	
Q416	C-5	D852	H-4	
Q417	B-5	D853	J-3	
Q418	B-5	D855	J-4	
Q561	I-6	D857	F-3	
Q601	G-12	D858	F-3	
Q801	E-2	D860	E-2	
Q802	G-1	D891	F-1	
Q821	E-6	D901	H-13	
Q902	H-13	D1201	A-2	
Q903	H-13	D1202	B-2	
Q1201	A-3	D1207	B-2	
Q1202	A-3	D1208	B-2	
Q1203	A-2	D1504	G-6	
Q1204	B-2	D1505	G-6	
Q1207	A-2			

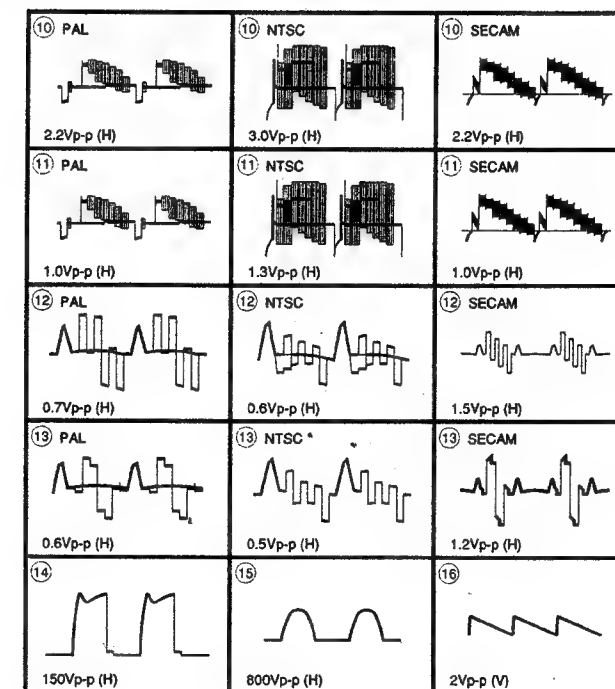
A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE  
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

## - A Board -



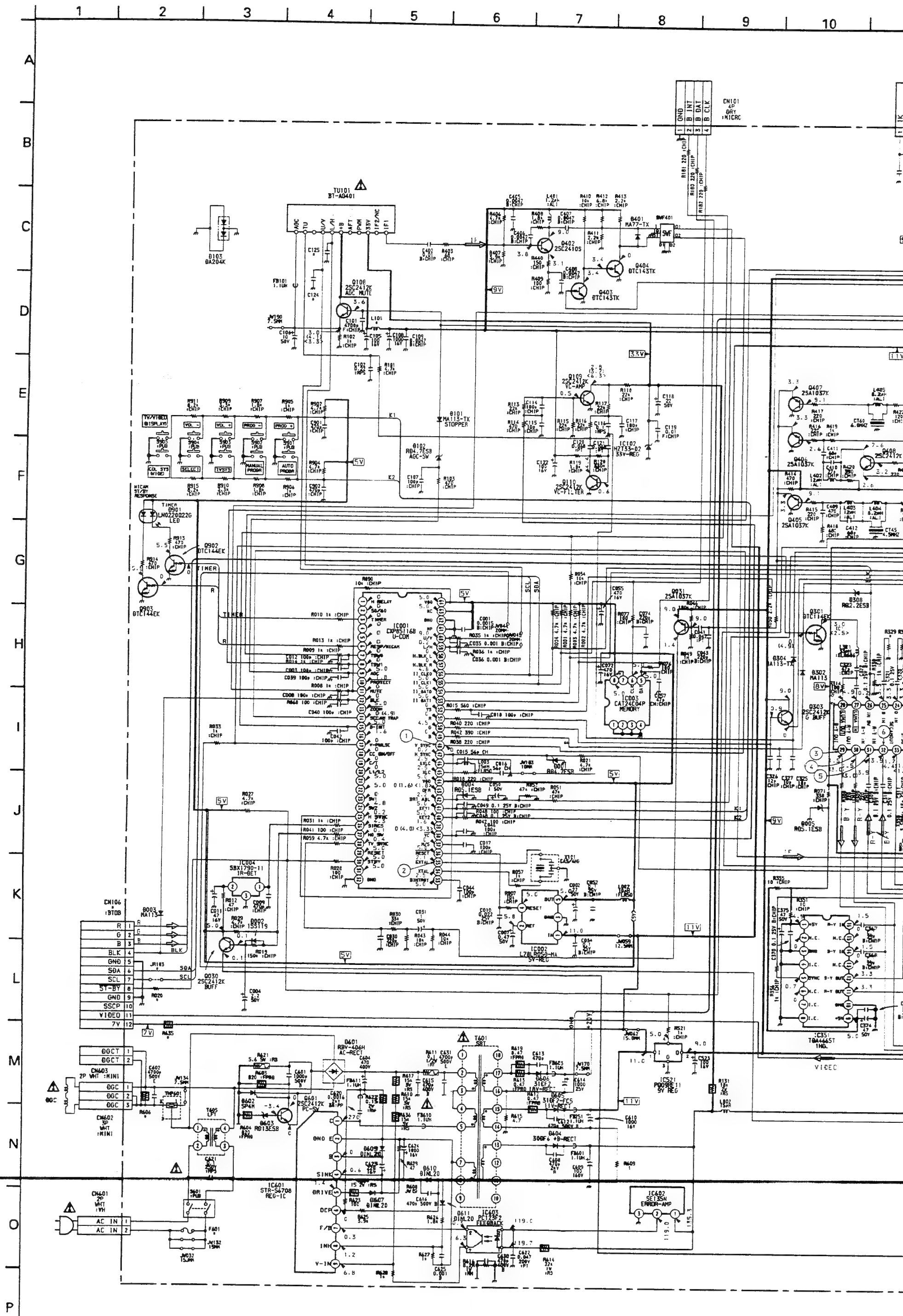


<p>①</p> <p>5.0Vp-p (H)</p>	<p>②</p> <p>4.0Vp-p</p>	<p>③</p> <p>0.7Vp-p (H)</p>
<p>③ NTSC</p> <p>0.6Vp-p (H)</p>	<p>③ SECAM</p> <p>1.6Vp-p (H)</p>	<p>④ PAL</p> <p>0.6Vp-p (H)</p>
<p>④ NTSC</p> <p>0.4Vp-p (H)</p>	<p>④ SECAM</p> <p>1.2Vp-p (H)</p>	<p>⑤ PAL/SECAM</p> <p>PAL : 1.3Vp-p (H) SECAM : 1.5Vp-p (H)</p>
<p>⑤ NTSC</p> <p>0.8Vp-p (H)</p>	<p>⑥ PAL/SECAM</p> <p>PAL : 1.0Vp-p (H) SECAM : 1.2Vp-p (H)</p>	<p>⑥ NTSC</p> <p>0.6Vp-p (H)</p>
<p>⑦ PAL/SECAM</p> <p>3.6Vp-p (H)</p>	<p>⑦ NTSC</p> <p>4.0Vp-p (H)</p>	<p>⑧ PAL/SECAM</p> <p>3.3Vp-p (H)</p>
<p>⑧ NTSC</p> <p>4.0Vp-p (H)</p>	<p>⑨ PAL/SECAM</p> <p>PAL : 3.4Vp-p (H) SECAM : 3.0Vp-p (H)</p>	<p>⑨ NTSC</p> <p>4.0Vp-p (H)</p>

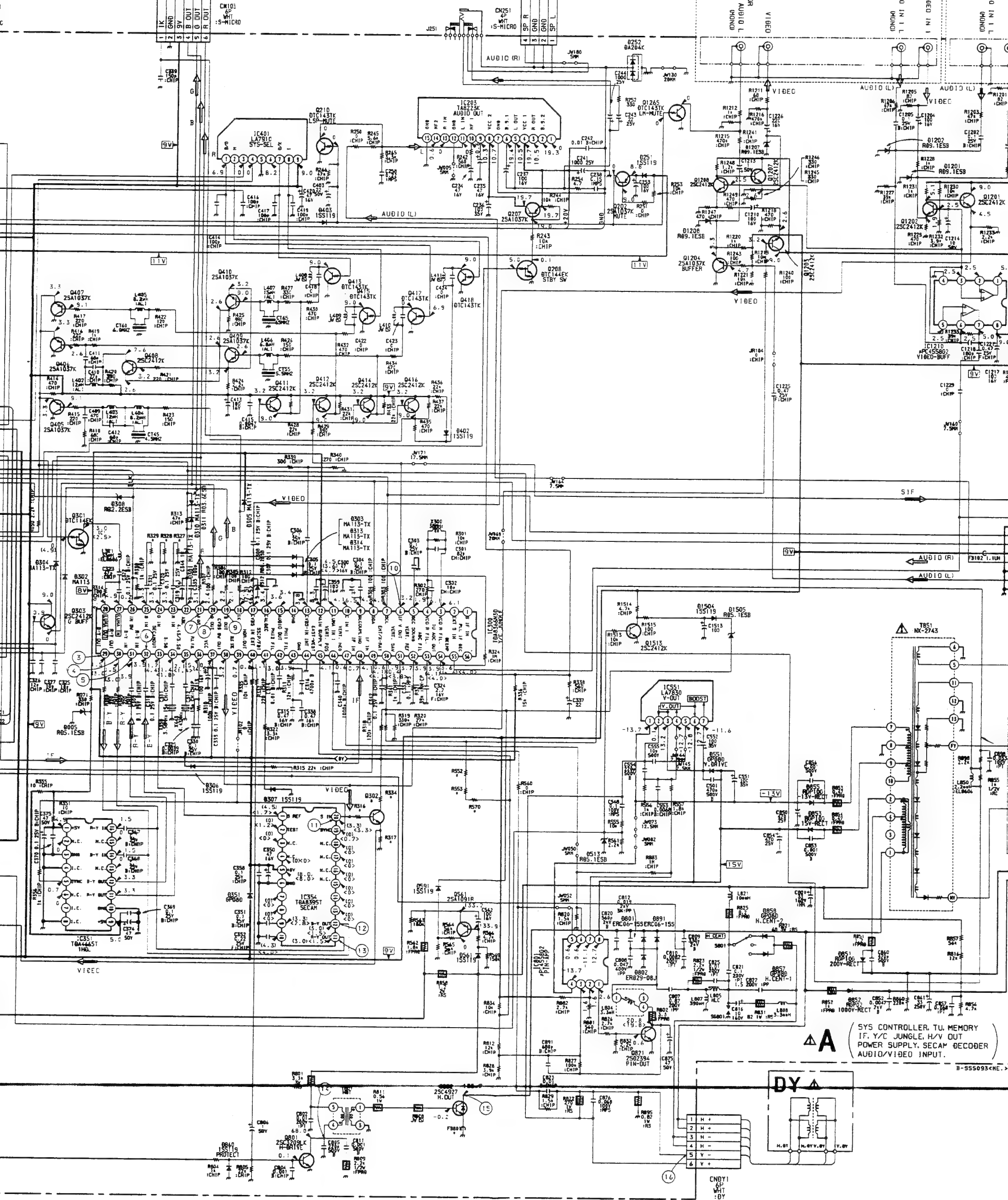


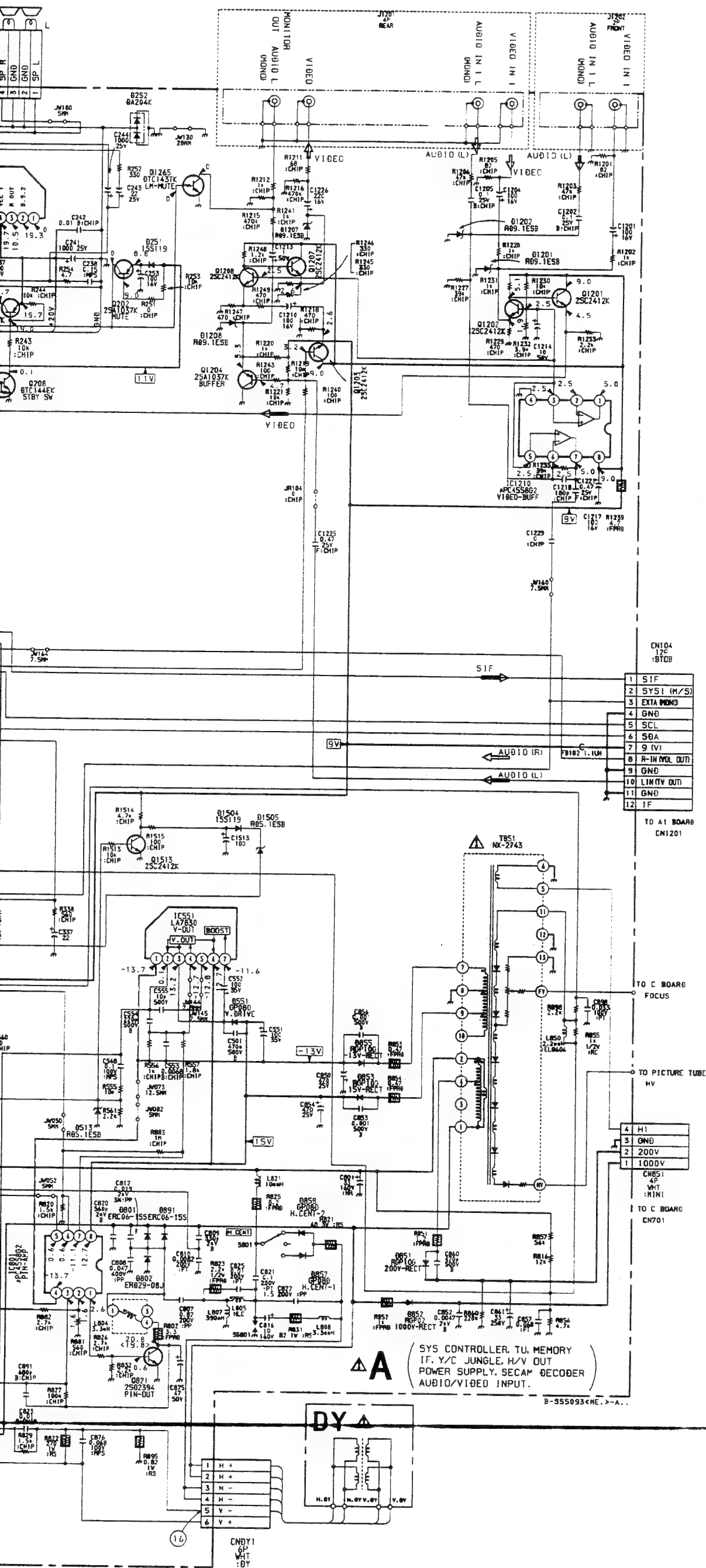
**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(1) Schematic Diagram of A Board





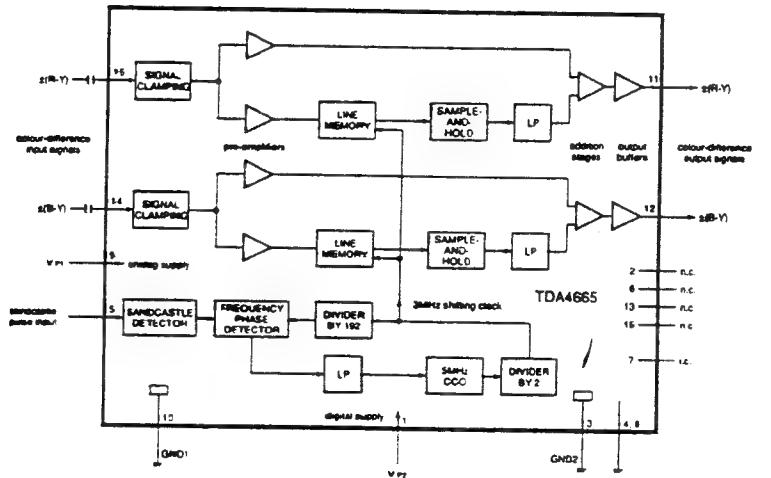




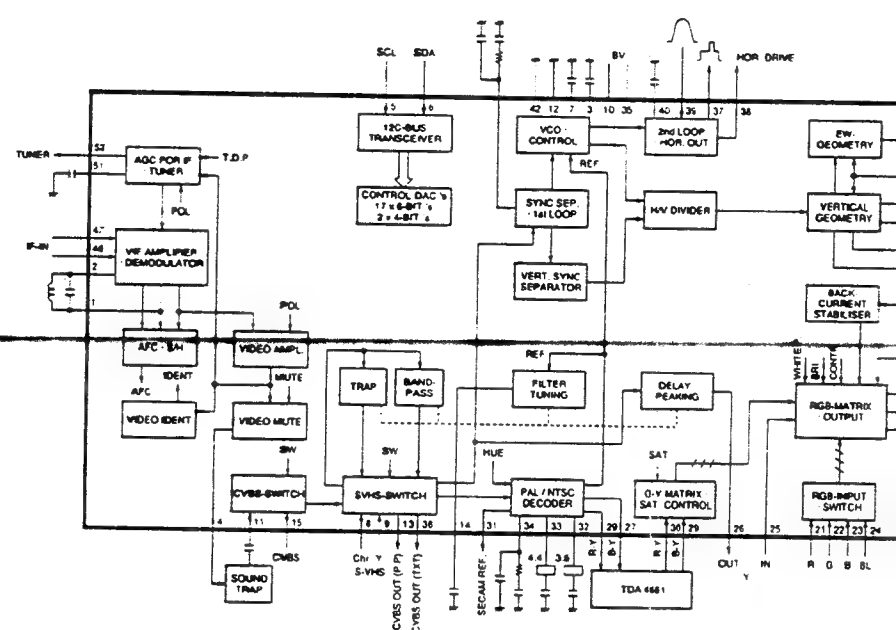
### A BOARD \* MARK LIST

	KV-G25M1 (ME)	KV-G25M1 (HK)	KV-G25M1 (I)
CN106	NOT USED	NOT USED	NOT USED
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD
F601	T3.15A	T3.15A	NOT USED
FB801	1.1uH	1.1uH	1.9uH
JR103	NOT USED	NOT USED	NOT USED
JW032	NOT USED	NOT USED	15MM
JW132	NOT USED	NOT USED	15MM
Q302	NOT USED	NOT USED	NOT USED
R020	NOT USED	NOT USED	NOT USED
R316	NOT USED	NOT USED	NOT USED
R317	NOT USED	NOT USED	NOT USED
R327	0 : CHIP	0 : CHIP	0 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP
R334	NOT USED	NOT USED	NOT USED
R552	NOT USED	NOT USED	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP
R635	NOT USED	NOT USED	NOT USED

### A BOARD IC351 TDA4665T



### A BOARD IC300 TDA8366N3D



	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W :RS

Block diagram of the TDA4665 integrated circuit. The diagram shows two color-difference input signals,  $s(R-Y)$  and  $s(B-Y)$ , entering through pins 16 and 14 respectively. These signals pass through signal clampers (pins 16 and 14) and pre-amplifiers to line memories (pins 9 and 13). The outputs of the line memories go through sample-and-hold and LP (low-pass) filters to addition stages (pins 11 and 12). A broadcast phase lock input (pin 5) goes through a broadcast phase detector, frequency phase detector, and divider by 192 to a shift/shifting clock (pin 10). The shift/shifting clock also goes through an LP filter, a sample-and-hold, and a divider by 2 (pin 7). The diagram also shows a digital supply (pin 1) and a GND2 (pin 3).

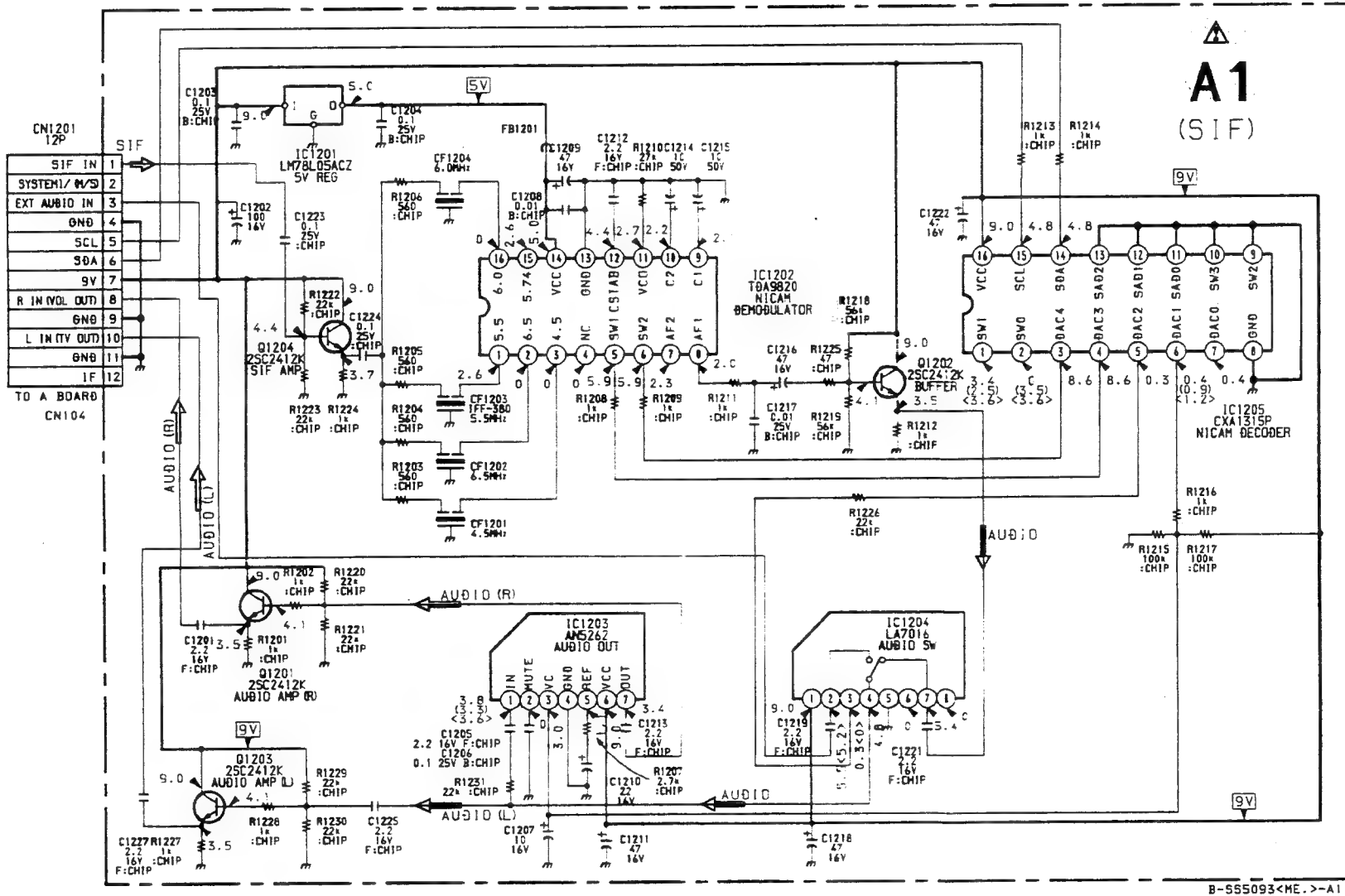
The block diagram illustrates the internal architecture of a color television receiver, organized into several functional sections:

- Tuner and IF Stages:** The process begins with a **TUNER** (pins 52, 51) and an **AOC FOR IF TUNER** (pins 52, 51) which outputs **T.D.F.** (Tuner Drive Feedback). The signal then passes through an **IF-IF** stage (pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and an **AFC SW** (Automatic Frequency Control Switch, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1).
- Video Processing:** The video signal is then processed by a **VIDEO AMPLIFIER DEMODULATOR** (pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and an **AFC SW** (Automatic Frequency Control Switch, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1). The output is then sent to a **VIDEO MUTE** (pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and a **VIDEO IDENT** (pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1).
- Audio Processing:** The audio signal is processed by an **AFC SW** (Automatic Frequency Control Switch, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and an **AFC** (Automatic Frequency Control, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1).
- Color and Sync Processing:** The color signal is processed by a **VIDEO AMPL.** (Video Amplifier, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and a **VIDEO MUTE** (Video Mute, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1). The output is then sent to a **VIDEO IDENT** (Video Identification, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1).
- Output Stage:** The final output is sent to a **VIDEO MUTE** (Video Mute, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1) and a **VIDEO IDENT** (Video Identification, pins 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1).

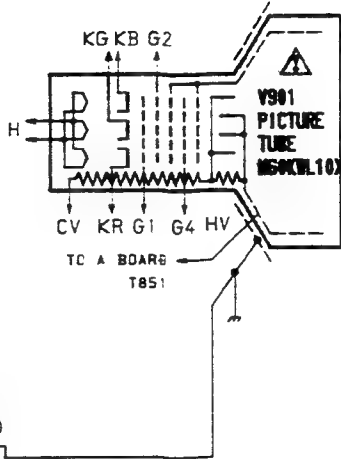
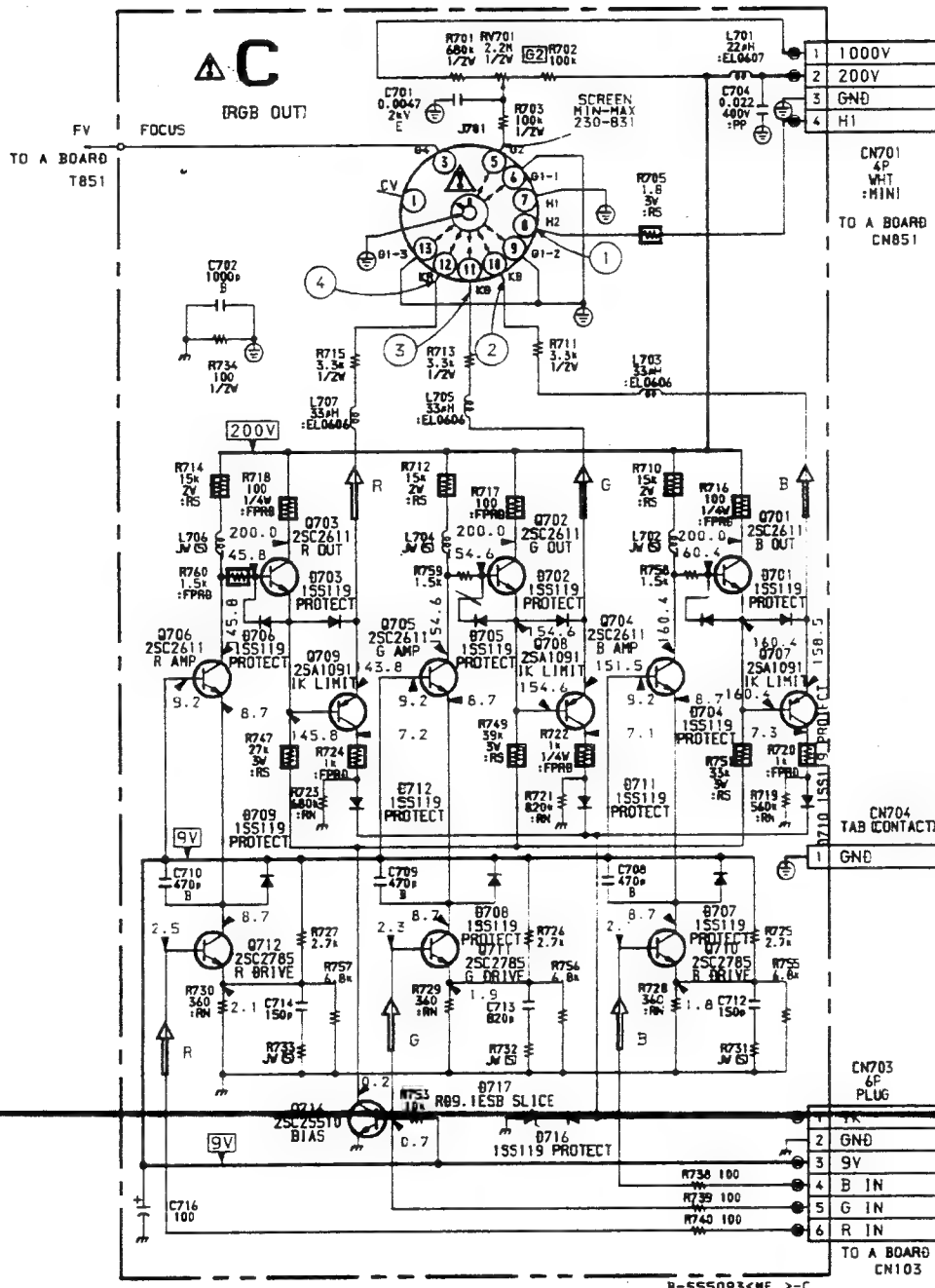
# (2) Schematic Diagrams of A1, C, F1 and V1 Boards

1 2 3 4 5 6 7 8 9 10 11

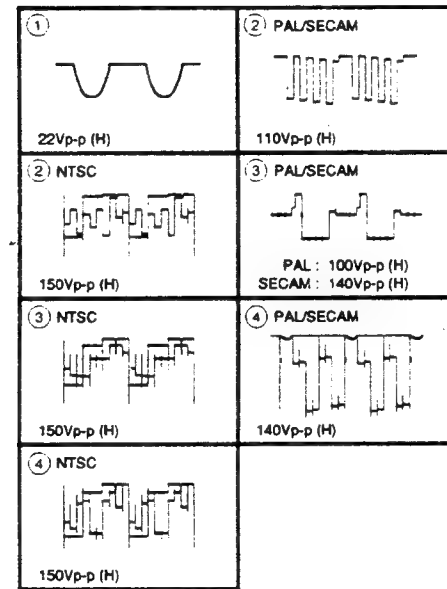
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O



B-555093<ME.>-A1.



## C BOARD WAVEFORMS



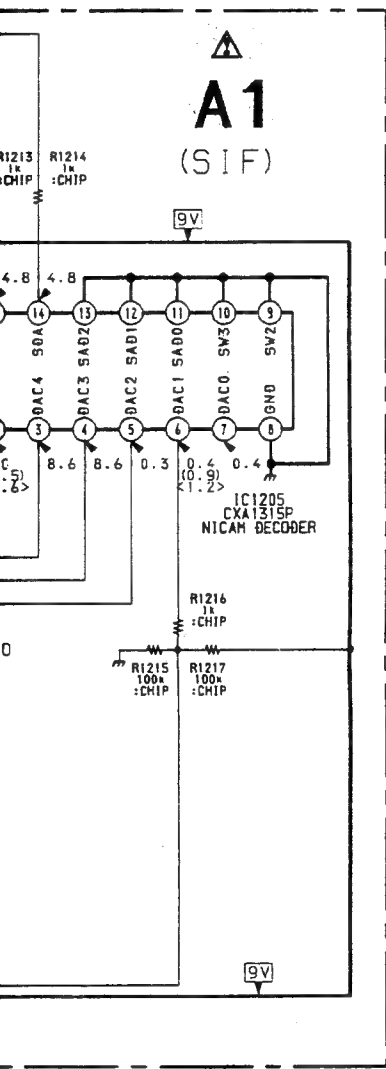
Schematic diagram

← A board

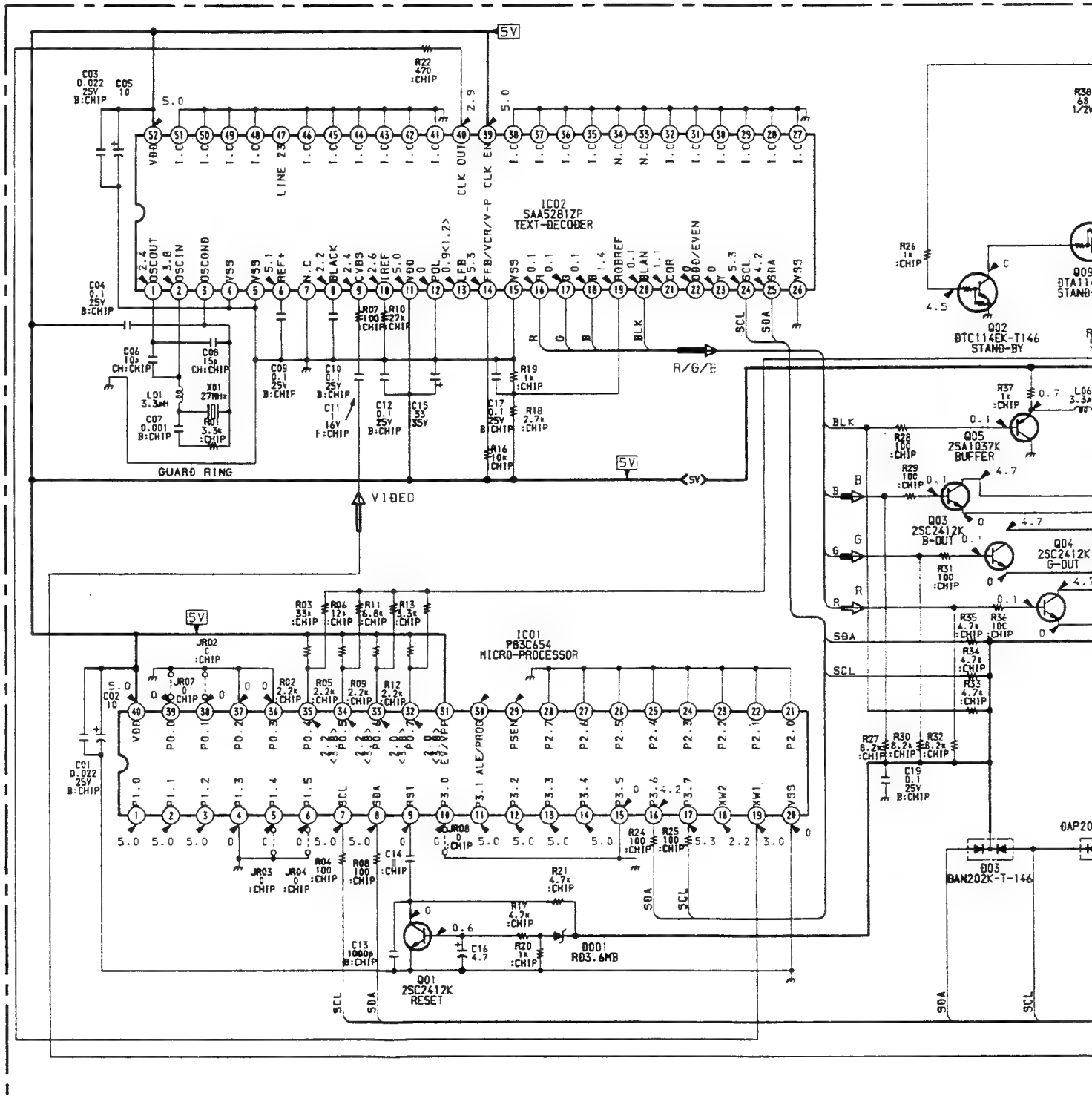
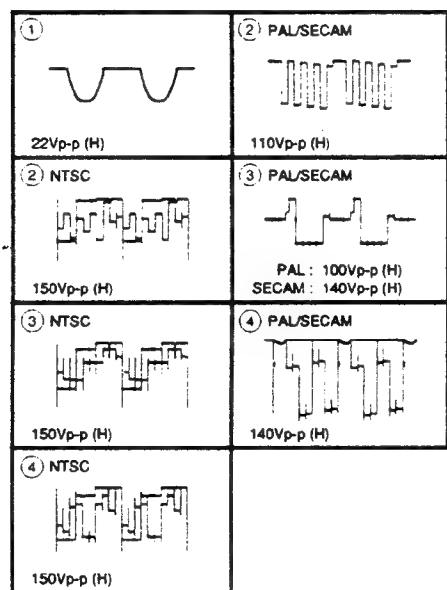
Schematic diagrams

A1, C, F1, V1 boards →

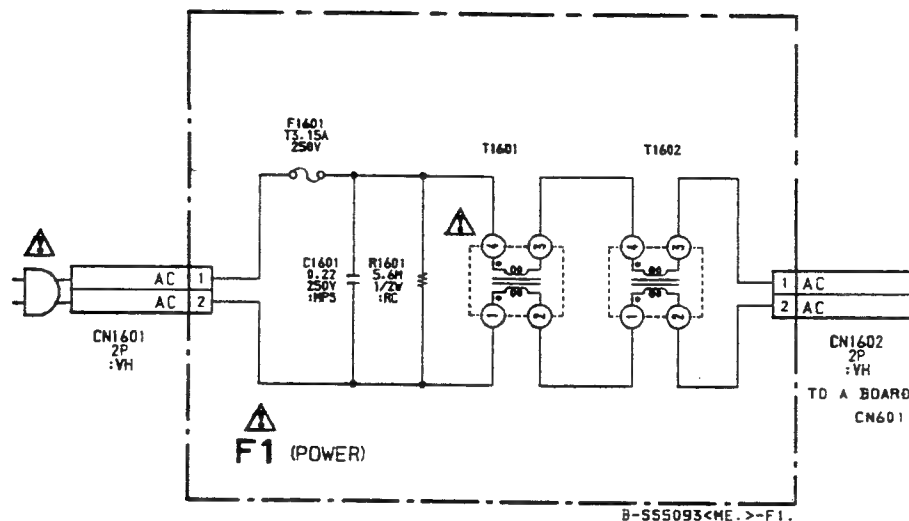
(KV-G25M11 only)



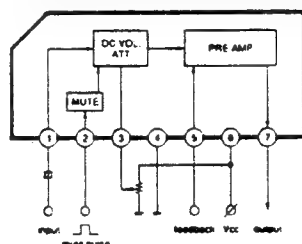
C BOARD WAVEFORMS



(KV-G25M1 (RUSS) only)



A1 BOARD IC1203 AN5262





- 38 -



**KV-G25M1/G25M11**  
**RM-870**

**KV-G25M1/G25M11**  
**RM-870**

## PRINTED WIRING BOARDS

**A1**

[SIF]

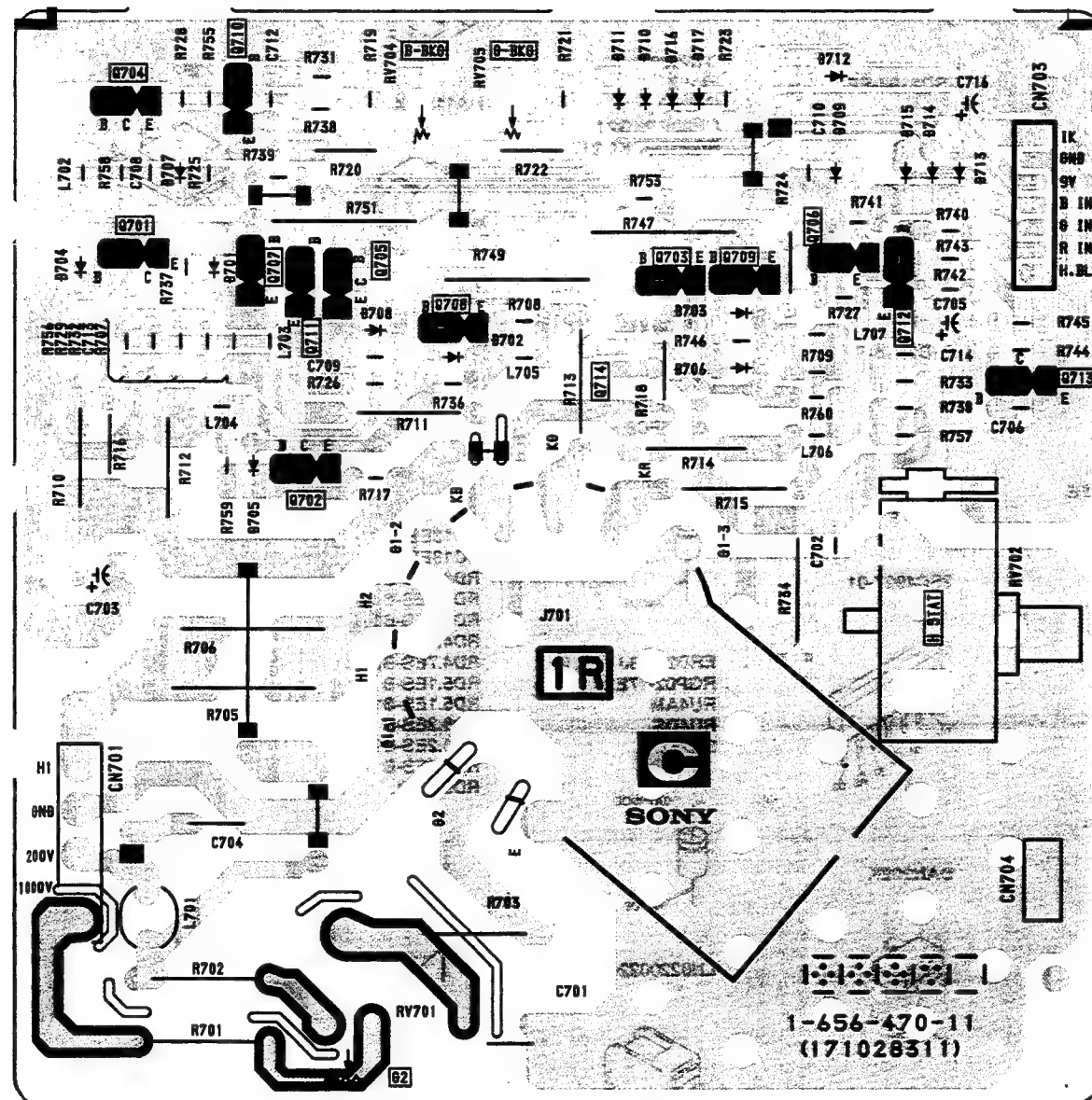
C

[RGB OUT]

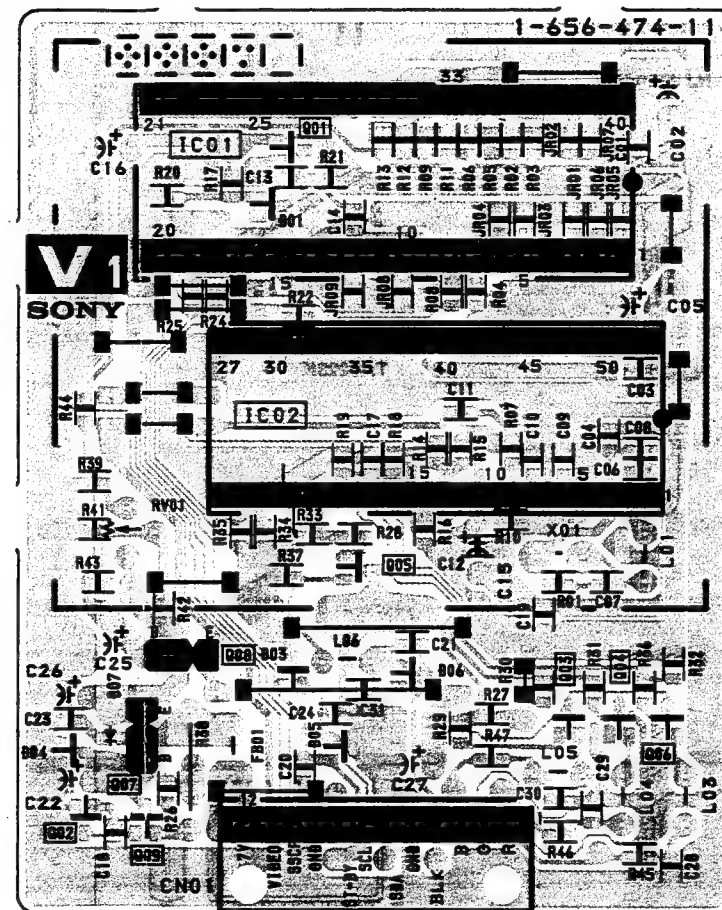
**V1**

[TELE TEXT]

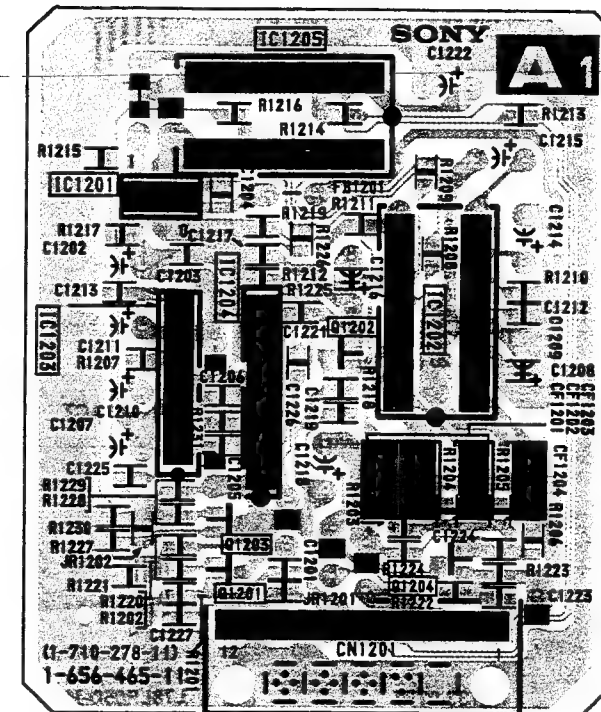
**- C Board -**



**– V1 Board – (KV-G25M11 only)**



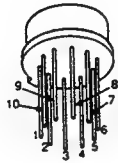
**– A1 Board –**



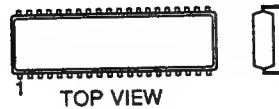


## 5-4. SEMICONDUCTORS

AN5262

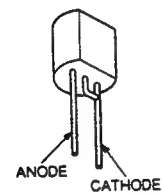


CAT24C04P (8PIN)  
CXA1110BS (30PIN)  
CXA1315P (16PIN)  
CXP85116B-615S (64PIN)  
CXP85224A-010S (64PIN)  
P83C654 (40PIN)  
SAA5281ZP (52PIN)  
TDA4665T (16PIN)  
TDA8366N3D (56PIN)  
TDA8395T (20PIN)  
TDA8424 (20PIN)  
TDA9820 (16PIN)

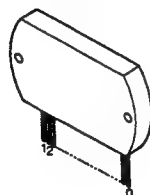


Dual In-line Package  
Pin 6 ~ 98

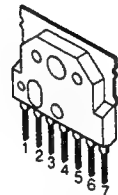
HZT33-02TE  
μPC574J



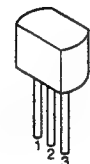
LA7016



LA7830



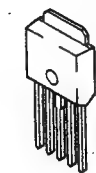
LA7910



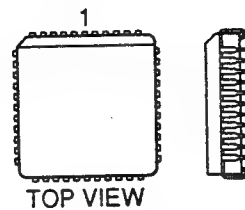
LM78L05ACZ



L78LR05D-MA

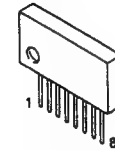


MSP3410 (44PIN)

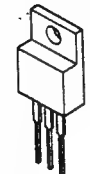


Quad Flat J-leaded Package  
Pin 20 ~ 996

NJM2234L



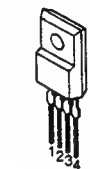
NJM7805FA



NJM78L12A



PQ09RE11



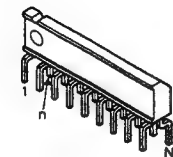
SBX1790-11  
SBX1790-51



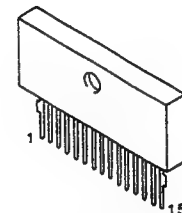
SE-135N



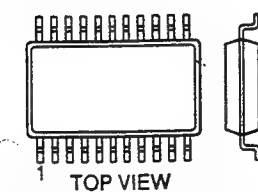
STR-S6708



TA8223K

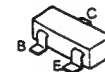


μPC4558G2 (8PIN)



Small Outline L-leaded Package  
Pin 8 ~ 98

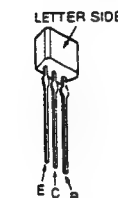
DTA114EK  
DTC114EK  
DTC143TK  
DTC144EK  
2SA1037K-QR  
2SA1162-G  
2SC1623-L5L6  
2SC2412K-QR  
2SC2712-YG



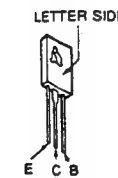
2SA1091  
2SA1091-O  
2SC2551-O



2SC2410SN  
2SC2785-HFE



2SC2611



2SC2669-O



2SC3209LK  
2SD774-34



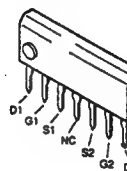
2SD2394-EF



2SD2394-F



2SC4927-01



DAN202K



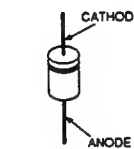
DAP202K



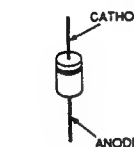
DA204K



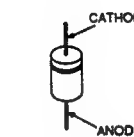
D1NL20  
EL-1Z  
GP08D  
GP08DPKG23  
RGP10GPKG23



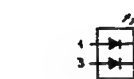
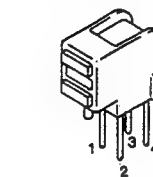
ERC06-15S  
S3L20UF4  
30DF6FC8



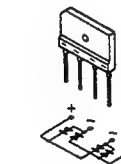
ERD29-08J  
RGP02-17EL  
RU4AM  
RU4DS  
31DF2



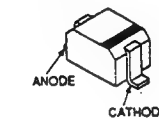
LN0220022G



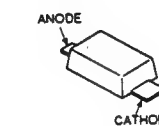
LN4SB60  
RBV-406H



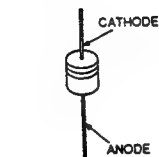
MA113-TX



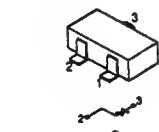
MA77-TX



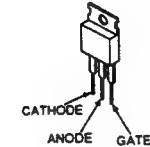
RD13ES-B  
RD13ES-B2  
RD2.2ES-B  
RD3.6ES-B  
RD3.6ES-B1  
RD4.7ES-B  
RD4.7ES-B2  
RD5.1ES-B  
RD5.1ES-B1  
RD8.2ES-B  
RD8.2ES-B2  
RD9.1ES-B  
RD9.1ESL



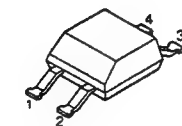
RD3.6M-B  
RD3.6M-B1  
RD5.6M-B  
RD5.6M-B2



5P4M



PC123F2



SECTION 6  
EXPLODED VIEWS

## NOTE:

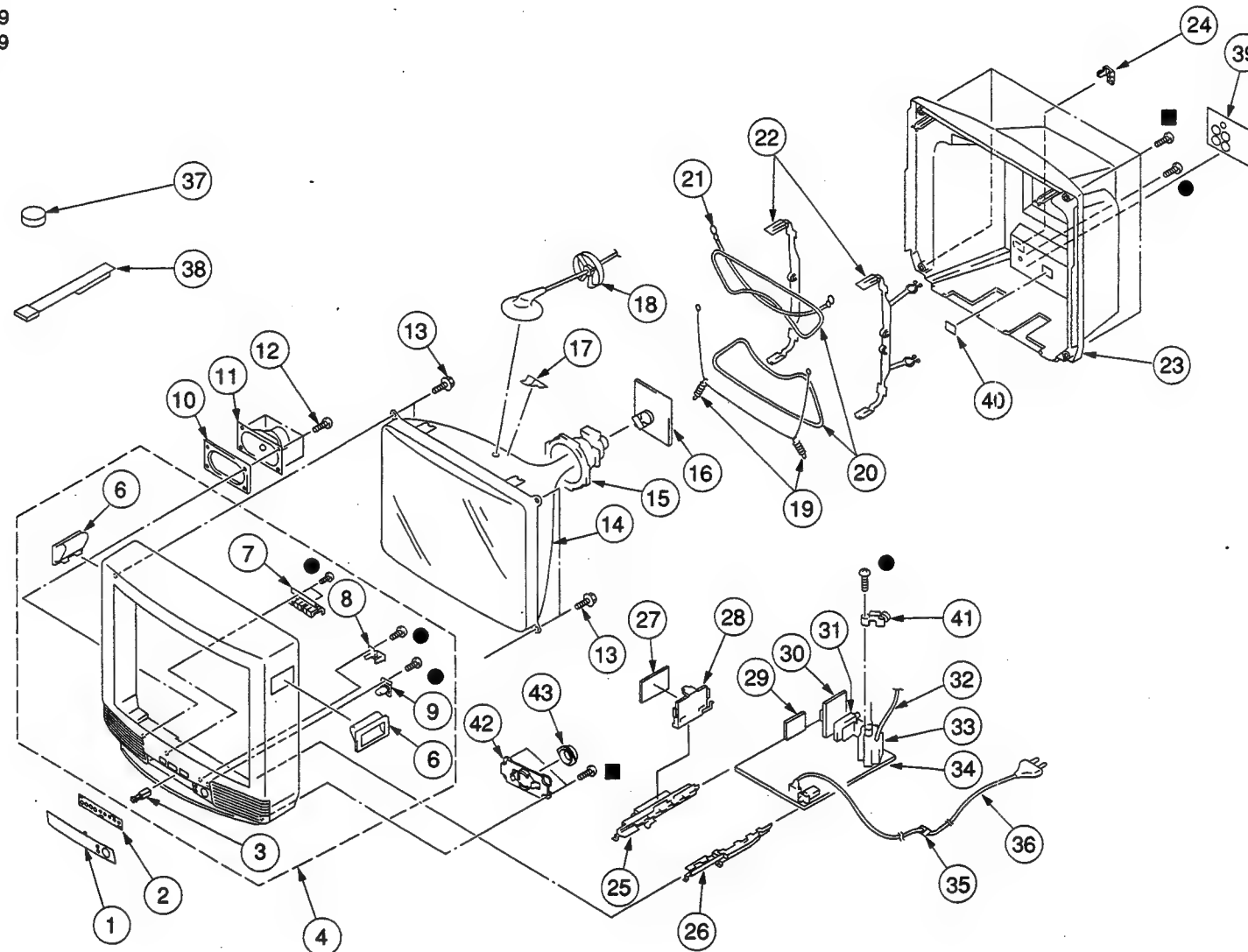
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

## 6-1. CHASSIS

- : BVTP3  $\times$  12 7-685-648-79
- : BVTP4  $\times$  16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-048-702-11	DOOR, CONTROL	
2	4-048-575-11	LABEL, CONTROL	
3	4-627-936-01	LOCK, MINIATURE SIDE	
4	X-4032-787-1	BEZNET ASSY	
6	4-048-691-01	HANDLE	
7	4-048-687-01	BUTTON, MULTI	
8	4-049-123-01	GUIDE, LIGHT	
9	4-048-688-01	BUTTON, POWER	
10	4-037-613-01	CUSHION, SP	
11	1-504-305-11	SPEAKER (5X12CM)	
12	4-043-388-01	SCREW, STEP TAPPING	
13	4-390-505-01	SCREW (7), TAPPING	
14	$\Delta$ 8-733-242-05	PICTURE TUBE (M60KWL10X)	
15	$\Delta$ 8-451-404-11	DEFLECTION YOK (Y25G1AS)	
16	*A-1331-428-A	C BOARD, COMPLETE	
17	3-704-495-01	SPACER, DY	
18	*3-704-372-11	HOLDER, HV CABLE	
19	4-369-318-61	SPRING, TENSION	
20	$\Delta$ 1-403-619-11	COIL, DEGAUSSING	
21	4-043-827-11	BAND, DEGAUSSING COIL	
22	*4-042-988-01	HOLDER, DGC	
23	4-048-703-01	COVER, REAR	
24	4-049-130-01	CLAMP, CODE	
25	*4-048-690-01	RAIL (L), GUIDE	
26	*4-048-689-01	RAIL (R), GUIDE	
27	*A-1241-190-A	F1 BOARD, COMPLETE (KV-G25M1(RUSS))	
28	*4-049-158-01	BRACKET, F1 PC BOARD (KV-G25M1(RUSS))	
29	*A-1347-103-A	V1 BOARD, COMPLETE (KV-G25M11)	
30	*A-1292-869-A	A1 BOARD, COMPLETE	
31	$\Delta$ 8-598-323-00	TUNER, KT AG401	
32	1-900-212-02	LEAD ASSY, FOCUS	
33	$\Delta$ 1-453-190-11	TRANSFORMER, FLTRK (NY-2743/M3B)	
34	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))	
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))	
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))	
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M11)	
35	$\Delta$ 4-389-778-11	WELDER, AC CORD	
36	$\Delta$ 1-574-062-22	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-G25M1(ME)) (KV-G25M1(HK)) (KV-G25M1(RUSS))	
	$\Delta$ 1-769-689-21	CORD, POWER (WITH CONNECTOR) (KV-G25M11)	
37	1-452-032-00	MAGNET, DISC	
38	X-4387-214-1	PERMALOY ASSY, CORRECTION	
39	4-049-121-01	LABEL, TERMINAL	
40	4-049-416-01	SHEET, BLIND	
41	4-039-460-01	HOLDER, FBT	
42	*4-049-124-01	BRACKET, SPEAKER	
43	1-544-453-21	SPEAKER (2CM)	

SECTION 7  
ELECTRICAL PARTS LIST

A1

A1

A

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " \* " are not stocked since service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

## CAPACITORS

- MF :  $\mu$ F, PF :  $\mu$ F

## COILS

- MMH :  $\mu$ H, UH :  $\mu$ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1292-869-A A1 BOARD, COMPLETE *****				<FERRITE BEAD>			
<CAPACITOR>				FB1201	1-412-911-11	INDUCTOR, FERRITE BEAD	
				<IC>			
C1201	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC1201	8-759-991-41	IC LM78L05ACZ	
C1202	1-104-665-11	ELECT 100MF	20% 16V	IC1202	8-759-070-71	IC TDA9820	
C1203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1203	8-759-248-80	IC AN5262-(NT)	
C1204	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1204	8-759-800-81	IC LA7016	
C1205	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC1205	8-752-057-18	IC CXA1315P	
				<TRANSISTOR>			
C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1207	1-126-157-11	ELECT 10MF	20% 16V	Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1208	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1209	1-104-664-11	ELECT 47MF	20% 16V	Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C1210	1-124-234-00	ELECT 22MF	20% 16V	<RESISTOR>			
				R1201	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1211	1-104-664-11	ELECT 47MF	20% 16V	R1202	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1212	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1203	1-216-043-91	METAL GLAZE 560	5% 1/10W
C1213	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1204	1-216-043-91	METAL GLAZE 560	5% 1/10W
C1214	1-124-907-11	ELECT 10MF	20% 50V	R1205	1-216-043-91	METAL GLAZE 560	5% 1/10W
C1215	1-124-907-11	ELECT 10MF	20% 50V				
				R1206	1-216-043-91	METAL GLAZE 560	5% 1/10W
C1216	1-104-664-11	ELECT 47MF	20% 16V	R1207	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
C1217	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R1208	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1218	1-104-664-11	ELECT 47MF	20% 16V	R1209	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1219	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1210	1-216-083-00	METAL GLAZE 27K	5% 1/10W
C1221	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
				R1211	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
C1222	1-104-664-11	ELECT 47MF	20% 16V	R1212	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1223	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1213	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1214	1-216-049-00	METAL GLAZE 1K	5% 1/10W
C1225	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1215	1-216-097-00	METAL GLAZE 100K	5% 1/10W
C1227	1-164-505-11	CERAMIC CHIP 2.2MF	16V				
<FILTER>				R1216	1-216-049-00	METAL GLAZE 1K	5% 1/10W
CF1201	1-527-943-00	FILTER, CERAMIC		R1217	1-216-097-00	METAL GLAZE 100K	5% 1/10W
CF1202	1-567-101-11	FILTER, CERAMIC		R1218	1-216-081-00	METAL GLAZE 22K	5% 1/10W
CF1203	1-567-099-00	FILTER, CERAMIC		R1219	1-216-081-00	METAL GLAZE 22K	5% 1/10W
CF1204	1-567-100-00	FILTER, CERAMIC		R1220	1-216-081-00	METAL GLAZE 22K	5% 1/10W
<CONNECTOR>							
CN1201	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P		R1221	1-216-081-00	METAL GLAZE 22K	5% 1/10W
				R1222	1-216-081-00	METAL GLAZE 22K	5% 1/10W
				R1223	1-216-081-00	METAL GLAZE 22K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1224	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C101	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R1225	1-216-017-00	METAL GLAZE 47	5% 1/10W	C102	1-136-169-00	FILM 0.22MF	5% 50V
				C105	1-104-665-11	ELECT 100MF	20% 16V
R1226	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C106	1-124-907-11	ELECT 10MF	20% 50V
R1227	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C107	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R1228	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C108	1-126-942-61	ELECT 1000MF	20% 16V
R1229	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
R1230	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C109	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
				C114	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R1231	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C115	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
*****				C116	1-136-165-00	FILM 0.1MF	5% 50V
				C117	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
				C118	1-124-916-11	ELECT 22MF	20% 50V
				C119	1-163-059-00	CERAMIC CHIP 0.01MF	50V
				C120	1-130-493-00	MYLAR 0.068MF	5% 50V
				C121	1-130-493-00	MYLAR 0.068MF	5% 50V
				C122	1-104-665-11	ELECT 100MF	20% 16V
				C124	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
				C125	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
				C234	1-104-664-11	ELECT 47MF	20% 16V
				C235	1-104-664-11	ELECT 47MF	20% 16V
				C236	1-126-968-11	ELECT 100MF	20% 35V
				C237	1-104-665-11	ELECT 100MF	20% 16V
				C238	1-136-167-00	FILM 0.15MF	5% 50V
				C241	1-124-557-11	ELECT 1000MF	20% 25V
				C242	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C243	1-126-233-11	ELECT 22MF	20% 25V
				C244	1-124-557-11	ELECT 1000MF	20% 25V
				C253	1-104-665-11	ELECT 100MF	20% 16V
				C258	1-136-169-00	FILM 0.22MF	5% 50V
				C300	1-104-664-11	ELECT 47MF	20% 16V
				C301	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
				C302	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
				C303	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C305	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C309	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C311	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
				C312	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
				C313	1-104-665-11	ELECT 100MF	20% 16V
				C314	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C315	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
				C316	1-102-125-00	CERAMIC 0.0047MF	10% 50V
				C319	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C321	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C322	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C323	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
				C324	1-164-337-11	CERAMIC CHIP 2.2MF	16V
				C325	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
				C326	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
				C327	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
				C329	1-163-016-00	CERAMIC CHIP 0.0039MF	10% 50V

**KV-G25M1/G25M11**  
RM-870

**A**

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1225	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D591	8-719-911-19	DIODE 1SS119-25	
C1226	1-124-120-11	ELECT 220MF 20%	16V	D601	8-719-052-84	DIODE RBV-406H-02	
C1229	1-216-295-00	CONDUCTOR, CHIP (2012)		D602	8-719-108-18	THYRISTOR 5P4M	
				D603	8-719-112-87	DIODE RD13EST1B	
C1513	1-124-122-11	ELECT 100MF 20%	50V	D604	8-719-110-36	DIODE RU4DS	
		<CONNECTOR>		D605	8-719-052-52	DIODE 31DF2-FD5	
CN101	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		D606	8-719-052-52	DIODE 31DF2-FD5	
CN103	*1-564-509-11	PLUG, CONNECTOR 6P		D607	8-719-510-26	DIODE D1NL20	
CN104	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		D609	8-719-510-26	DIODE D1NL20	
CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (KV-G25M11)		D610	8-719-510-26	DIODE D1NL20	
CN251	*1-564-507-11	PLUG, CONNECTOR 4P		D611	8-719-510-26	DIODE D1NL20	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)		D801	8-719-945-80	DIODE ERC06-15S	
CN602	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D802	8-719-900-26	DIODE ERD29-08J	
CN603	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D851	8-719-302-43	DIODE EL1Z	
CN851	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		D852	8-719-028-72	DIODE RGP02-17EL-6433	
		<TRIMMER>		D853	8-719-302-43	DIODE EL1Z	
CT45	1-579-690-21	TRAP, CERAMIC		D855	8-719-302-43	DIODE EL1Z	
CT55	1-404-801-11	TRAP, CERAMIC		D857	8-719-908-03	DIODE GP08D	
CT60	1-409-429-11	TRAP, CERAMIC		D858	8-719-908-03	DIODE GP08D	
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)		D860	8-719-911-19	DIODE 1SS119-25	
		<DIODE>		D891	8-719-945-80	DIODE ERC06-15S	
D001	8-719-109-81	DIODE RD4.7ESB2		D901	8-719-054-60	DIODE LN0220022G	
D002	8-719-911-19	DIODE 1SS119-25		D1201	8-719-121-24	DIODE RD9.1ESL	
D003	8-719-041-97	DIODE MA113-(TX)		D1202	8-719-121-24	DIODE RD9.1ESL	
D004	8-719-109-84	DIODE RD5.1ESB1		D1207	8-719-121-24	DIODE RD9.1ESL	
D005	8-719-109-84	DIODE RD5.1ESB1		D1208	8-719-121-24	DIODE RD9.1ESL	
		<FUSE>		D1504	8-719-911-19	DIODE 1SS119-25	
D101	8-719-041-97	DIODE MA113-(TX)		D1505	8-719-109-84	DIODE RD5.1ESB1	
D102	8-719-109-81	DIODE RD4.7ESB2					
D103	8-719-914-42	DIODE DA204K					
D251	8-719-911-19	DIODE 1SS119-25					
D252	8-719-914-42	DIODE DA204K					
		<FERRITE BEAD>					
D301	8-719-041-97	DIODE MA113-(TX)		FB101	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D302	8-719-041-97	DIODE MA113-(TX)		FB102	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D303	8-719-041-97	DIODE MA113-(TX)		FB251	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D304	8-719-041-97	DIODE MA113-(TX)		FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D305	8-719-041-97	DIODE MA113-(TX)		FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D306	8-719-911-19	DIODE 1SS119-25		FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D307	8-719-911-19	DIODE 1SS119-25		FB611	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D308	8-719-109-54	DIODE RD2.2ESB2		FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH (KV-G25M1 (ME)/(HK), KV-G25M11)	
D310	8-719-041-97	DIODE MA113-(TX)		FB801	1-420-872-00	COIL, AIR CORE (KV-G25M1 (RUSS))	
D311	8-719-109-68	DIODE RD3.6ESB1					
		<IC>					
D312	8-719-110-08	DIODE RD8.2ESB2		IC001	8-752-866-21	IC CXP85116B-615S	
D313	8-719-041-97	DIODE MA113-(TX)		IC002	8-759-805-37	IC L78LR05D-MA	
D314	8-719-041-97	DIODE MA113-(TX)		IC003	8-759-093-95	IC CAT24C04P	
D351	8-719-908-03	DIODE GP08D		IC004	8-741-790-11	ELEMENT, RAY-CATCHER SBX1790-11	
D401	8-719-421-40	DIODE MA77		IC102	8-759-157-40	IC UPC574J	
D402	8-719-911-19	DIODE 1SS119-25		IC203	8-759-336-30	IC TA8223K	
D403	8-719-911-19	DIODE 1SS119-25		IC300	8-759-339-50	IC TDA8366N3D	
D513	8-719-109-84	DIODE RD5.1ESB1		IC351	8-759-293-27	IC TDA4665	
D551	8-719-908-03	DIODE GP08D					
D561	8-719-911-19	DIODE 1SS119-25					

**F601** **A1** 532-237-11 FUSE, TIME-LAC (DET) 3.15A/250V  
(KV-G25M1 (ME)/(HK), KV-G25M11)

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

A

F. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C609	1-126-600-11	ELECT 100MF	20% 160V
C332	1-136-165-00	FILM 0.1MF	5% 50V	C610	1-126-942-61	ELECT 1000MF	20% 16V
C333	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C612	1-102-228-00	CERAMIC 470PF	10% 500V
C335	1-102-973-00	CERAMIC 100PF	5% 50V	C613	1-102-824-00	CERAMIC 470PF	5% 50V
C337	1-124-916-11	ELECT 22MF	20% 50V				
C338	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V	C614	1-124-557-11	ELECT 1000MF	20% 25V
C339	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	<del>C615</del>	<del><math>\Delta</math> 1-164-497-51</del>	<del>CERAMIC 470PF</del>	<del>10% 400V</del>
C340	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C616	1-102-228-00	CERAMIC 470PF	10% 500V
C342	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C620	1-136-619-11	FILM 0.0016MF	3% 2KV
C344	1-124-907-11	ELECT 10MF	20% 50V	<del>C621</del>	<del><math>\Delta</math> 1-136-548-13</del>	<del>FILM 0.1MF</del>	<del>20% 250V</del>
C350	1-104-664-11	ELECT 47MF	20% 16V	C622	1-106-383-00	MYLAR 0.047MF	10% 200V
C351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C623	1-124-120-11	ELECT 220MF	20% 16V
C352	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C624	1-126-942-61	ELECT 1000MF	20% 16V
C358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C625	1-102-074-00	CERAMIC 0.001MF	10% 50V
C359	1-104-665-11	ELECT 100MF	20% 16V	<del>C630</del>	<del><math>\Delta</math> 1-164-497-51</del>	<del>CERAMIC 470PF</del>	<del>10% 400V</del>
367	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C631	1-161-830-00	CERAMIC 0.0047MF	99% 500V
C368	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C801	1-123-024-21	ELECT 33MF	160V
C369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C802	1-106-367-00	MYLAR 0.01MF	10% 200V
C370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C804	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C374	1-124-910-11	ELECT 47MF	20% 50V	C805	1-102-244-00	CERAMIC 220PF	10% 500V
C375	1-124-910-11	ELECT 47MF	20% 50V	C806	1-124-903-11	ELECT 1MF	20% 50V
C402	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C807	1-136-540-11	FILM 0.82MF	5% 200V
C403	1-124-916-11	ELECT 22MF	20% 50V	C808	1-130-959-00	FILM 0.047MF	10% 400V
C405	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C809	1-162-115-00	CERAMIC 330PF	10% 2KV
C406	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C810	1-106-365-00	MYLAR 0.0082MF	99% 200V
407	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C811	1-162-318-11	CERAMIC 0.001M	10% 500V
C408	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C812	1-136-617-11	FILM 0.019M	3% 2KV
C409	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C816	1-123-947-00	ELECT 10MF	20% 160V
C410	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C820	1-162-135-11	CERAMIC 560PF	10% 2KV
C411	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C821	1-106-391-12	MYLAR 0.1MF	10% 200V
C412	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C822	1-136-541-11	FILM 1.5MF	5% 200V
C413	1-104-665-11	ELECT 100MF	20% 16V	C823	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C414	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C825	1-106-367-00	MYLAR 0.01MF	10% 200V
C415	1-163-017-00	CERAMIC CHIP 0.0047MF	10V 50V	C850	1-124-480-11	ELECT 470MF	20% 25V
C416	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C852	1-104-574-11	CERAMIC 0.0047MF	10 2KV
417	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C853	1-162-318-11	CERAMIC 0.001MF	10% 500V
C418	1-216-295-00	CONDUCTOR, CHIP (2012)		C854	1-124-480-11	ELECT 470MF	20% 25V
C419	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C856	1-162-318-11	CERAMIC 0.001MF	10% 500V
C420	1-104-664-11	ELECT 47MF	20% 16V	C857	1-130-493-00	MYLAR 0.068MF	5% 50V
C422	1-216-295-00	CONDUCTOR, CHIP (2012)		C860	1-102-228-00	CERAMIC 470PF	10% 500V
C423	1-216-295-00	CONDUCTOR, CHIP (2012)		C861	1-107-654-11	ELECT 33MF	20% 250V
C424	1-216-295-00	CONDUCTOR, CHIP (2012)		C875	1-124-910-11	ELECT 47MF	20% 50V
C425	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C876	1-108-702-11	MYLAR 0.068MF	10% 100V
C501	1-102-228-00	CERAMIC 470PF	10% 500V	C891	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C523	1-104-665-11	ELECT 100MF	20% 16V	C898	1-106-379-12	MYLAR 0.033MF	10% 100V
C548	1-106-220-00	MYLAR 0.1MF	10% 100V	C901	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C551	1-126-968-11	ELECT 100MF	20% 35V	C902	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C552	1-126-968-11	ELECT 100MF	20% 35V	C1201	1-104-665-11	ELECT 100MF	20% 16V
C553	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C1202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C554	1-102-244-00	CERAMIC 220PF	10% 500V	C1204	1-104-665-11	ELECT 100MF	20% 16V
C555	1-101-804-00	CERAMIC 10PF	5% 500V	C1205	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C562	1-104-665-11	ELECT 100MF	20% 16V	C1210	1-104-665-11	ELECT 100MF	20% 16V
601	1-162-318-11	CERAMIC 0.001MF	10% 500V	C1213	1-124-903-11	ELECT 1MF	20% 50V
J602	1-161-830-00	CERAMIC 0.0047MF	99% 500V	C1214	1-124-907-11	ELECT 10MF	20% 50V
C604	1-125-483-11	ELECT (BLOCK) 470MF	20% 400V	C1217	1-104-665-11	ELECT 100MF	20% 16V
C608	1-104-332-11	CERAMIC 470PF	10% 2KV	C1218	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
				C1221	1-164-005-11	CERAMIC CHIP 0.47MF	25V

**KV-G25M1/G25M11**  
RM-870

**A**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R021	1-216-065-00	METAL GLAZE 4.7K	5 1/10W	R266	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R027	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R301	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R028	1-216-025-00	METAL GLAZE 100	5% 1/10W	R302	1-216-035-00	METAL GLAZE 270	5% 1/10W
R029	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R303	1-216-025-00	METAL GLAZE 100	5% 1/10W
R030	1-216-085-00	METAL GLAZE 33K	5% 1/10W				
R031	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R304	1-216-025-00	METAL GLAZE 100	5% 1/10W
R033	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R305	1-216-025-00	METAL GLAZE 100	5% 1/10W
R035	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R306	1-216-025-00	METAL GLAZE 100	5% 1/10W
R036	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R307	1-216-025-00	METAL GLAZE 100	5% 1/10W
R038	1-216-033-00	METAL GLAZE 220	5% 1/10W	R308	1-216-033-00	METAL GLAZE 220	5% 1/10W
R040	1-216-033-00	METAL GLAZE 220	5% 1/10W	R309	1-216-033-00	METAL GLAZE 220	5% 1/10W
R041	1-216-025-00	METAL GLAZE 100	5% 1/10W	R310	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R042	1-216-039-00	METAL GLAZE 390	5% 1/10W	R311	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R043	1-216-079-00	METAL GLAZE 18K	5% 1/10W	R312	1-216-025-00	METAL GLAZE 100	5% 1/10W
R044	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R313	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R046	1-216-097-00	METAL GLAZE 100K	5% 1/10W	R314	1-216-025-00	METAL GLAZE 100	5% 1/10W
R047	1-216-025-00	METAL GLAZE 100	5% 1/10W	R315	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R048	1-216-025-00	METAL GLAZE 100	5% 1/10W	R316	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R049	1-216-121-00	METAL GLAZE 1M	5% 1/10W				(KV-G25M11)
R050	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R317	1-216-049-00	METAL GLAZE 1K	5% 1/10W
							(KV-G25M11)
R051	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R318	1-216-099-00	METAL GLAZE 120K	5% 1/10W
R052	1-216-089-00	METAL GLAZE 47K	5% 1/10W				
R054	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R319	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R057	1-216-049-00	METAL GLAZE 1K	5 1/10W	R320	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R059	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R321	1-216-689-11	METAL CHIP 39K	0.50% 1/10W
				R322	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R067	1-216-033-00	METAL GLAZE 220	5% 1/10W	R324	1-216-121-00	METAL GLAZE 1M	5% 1/10W
R068	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R071	1-216-037-00	METAL GLAZE 330	5% 1/10W	R327	1-216-025-00	METAL GLAZE 100	5% 1/10W
R076	1-216-025-00	METAL GLAZE 100	5% 1/10W				(KV-G25M11)
R077	1-216-025-00	METAL GLAZE 100	5% 1/10W	R327	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
				R328	1-216-025-00	METAL GLAZE 100	5% 1/10W
							(KV-G25M11)
R090	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R328	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
R101	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R329	1-216-025-00	METAL GLAZE 100	5% 1/10W
R102	1-216-049-00	METAL GLAZE 1K	5% 1/10W				(KV-G25M11)
R103	1-216-041-00	METAL GLAZE 470	5% 1/10W				
R113	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R329	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
				R330	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R114	1-216-041-00	METAL GLAZE 470	5% 1/10W	R332	1-216-033-00	METAL GLAZE 220	5% 1/10W
R115	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R334	1-216-041-00	METAL GLAZE 470	5% 1/10W
R116	1-216-081-00	METAL GLAZE 22K	5% 1/10W				(KV-G25M11)
R117	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R335	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R118	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
R119	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R336	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R120	1-216-109-00	METAL GLAZE 330K	5% 1/10W	R338	1-216-043-91	METAL GLAZE 560	5% 1/10W
R131	1-216-464-11	METAL OXIDE 18K	5% 2W	R339	1-216-036-00	METAL GLAZE 300	5% 1/10W
R180	1-216-033-00	METAL GLAZE 220	5% 1/10W	R340	1-216-035-00	METAL GLAZE 270	5% 1/10W
R181	1-216-033-00	METAL GLAZE 220	5% 1/10W	R341	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R182	1-216-033-00	METAL GLAZE 220	5% 1/10W	R351	1-216-001-00	METAL GLAZE 10	5% 1/10W
R242	1-216-043-91	METAL GLAZE 560	5% 1/10W	R355	1-216-001-00	METAL GLAZE 10	5% 1/10W
R243	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R356	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R244	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R403	1-216-021-00	METAL GLAZE 68	5% 1/10W
R245	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W	R406	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R250	1-216-295-00	CONDUCTOR, CHIP (2012)		R407	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
R251	1-216-295-00	CONDUCTOR, CHIP (2012)		R408	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R252	1-249-411-11	CARBON 330	5% 1/4W	R409	1-216-025-00	METAL GLAZE 100	5% 1/10W
R253	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R410	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R254	1-249-389-11	CARBON 4.7	5% 1/4W	R411	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R265	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R412	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
				R413	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W



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EF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC354	8-759-251-56	IC TDA8395T		Q208	8-729-901-01	TRANSISTOR DTC144EK	
IC401	8-759-800-65	IC LA7910		Q210	8-729-900-98	TRANSISTOR DTC143TK	
IC521	8-759-195-63	IC PQ09RE11		Q301	8-729-900-53	TRANSISTOR DTC114EK	
IC551	8-759-801-98	IC LA7830		Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (KV-G25M11)	
IC601	8-749-010-84	IC STR-S6708		Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC602	8-749-920-61	IC SE-135N		Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
$\Delta$ IC603	$\Delta$ 8-749-010-64	PHOTO COUPLER PC123F2		Q403	8-729-900-98	TRANSISTOR DTC143TK	
IC801	8-759-100-96	IC UPC4558G2		Q404	8-729-900-98	TRANSISTOR DTC143TK	
IC1210	8-759-100-96	IC UPC4558G2		Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
<JACK>				Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
J251	1-770-785-11	JACK		Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
J1201	1-770-660-11	JACK BLOCK, PIN 4P		Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
J1202	1-695-238-11	JACK BLOCK, PIN 2P		Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
<CHIP CONDUCTOR>				Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
JR102	1-216-295-00	CONDUCTOR, CHIP (2012)		Q411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR103	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M11)		Q412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR104	1-216-295-00	CONDUCTOR, CHIP (2012)		Q413	8-729-900-98	TRANSISTOR DTC143TK	
<COIL>				Q414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L002	1-410-470-11	INDUCTOR 10UH		Q415	8-729-900-98	TRANSISTOR DTC143TK	
L003	1-408-411-00	INDUCTOR 15UH		Q416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L101	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH		Q417	8-729-900-98	TRANSISTOR DTC143TK	
L301	1-408-609-41	INDUCTOR 33UH		Q418	8-729-900-98	TRANSISTOR DTC143TK	
L401	1-410-498-11	INDUCTOR 1.2UH		Q561	8-729-200-17	TRANSISTOR 2SA1091-0	
L402	1-410-510-11	INDUCTOR 12UH		Q601	8-729-120-28	TRANSISTOR 2SC2412K	
L403	1-410-510-11	INDUCTOR 12UH		Q801	8-729-140-96	TRANSISTOR 2SD774-34	
L404	1-410-508-11	INDUCTOR 8.2UH		Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
L405	1-410-508-11	INDUCTOR 8.2UH		Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
L406	1-410-507-11	INDUCTOR 6.8UH		Q902	8-729-901-01	TRANSISTOR DTC144EK	
L407	1-410-511-11	INDUCTOR 15UH		Q903	8-729-901-01	TRANSISTOR DTC144EK	
L408	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L409	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L410	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L411	1-535-303-00	LEAD, JUMPER (5.0MM)		Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
L802	1-412-527-11	INDUCTOR 15UH		Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		Q1208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY		Q1265	8-729-900-98	TRANSISTOR DTC143TK	
L807	1-459-390-00	COIL (WITH CORE)		Q1513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L808	1-412-553-11	INDUCTOR 3.3MH		<RESISTOR>			
L821	1-459-111-00	COIL, DRAM CORE (CDI)		R001	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L850	1-408-947-00	INDUCTOR 2.2MH		R002	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
<TRANSISTOR>				R003	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q030	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R004	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
Q031	8-729-216-22	TRANSISTOR 2SA1162-G		R007	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q108	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R008	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q109	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R009	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R010	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G		R012	1-216-017-00	METAL GLAZE 47 5% 1/10W	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G		R013	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R014	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R015	1-216-043-91	METAL GLAZE 560 5% 1/10W	
				R018	1-216-033-00	METAL GLAZE 220 5% 1/10W	
				R019	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
				R020	1-216-025-00	METAL GLAZE 100 5% 1/10W	
						(KV-G25M11)	

**KV-G25M1/G25M11**  
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The components identified by shading and mark  $\Delta$  are critical for safety.  
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REF. NO.	PART NO.	DESCRIPTION	REMARK
R910	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R911	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R913	1-216-041-00	METAL GLAZE 470	5% 1/10W
R914	1-216-041-00	METAL GLAZE 470	5% 1/10W
R915	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1201	1-216-023-00	METAL GLAZE 82	5% 1/10W
R1202	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1203	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1205	1-216-023-00	METAL GLAZE 82	5% 1/10W
R1206	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1211	1-216-021-00	METAL GLAZE 68	5% 1/10W
R1212	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1215	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1216	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1218	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1219	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1220	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1221	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1227	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R1228	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1229	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1230	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1231	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1232	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
R1233	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1235	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R1239	1-249-389-11	CARBON 4.7	5% 1/4W
R1240	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1241	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1243	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1245	1-216-037-00	METAL GLAZE 330	5% 1/10W
R1246	1-216-037-00	METAL GLAZE 330	5% 1/10W
R1247	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1248	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1249	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1513	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1514	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1515	1-216-025-00	METAL GLAZE 100	5% 1/10W
<SWITCH>			
SG01	$\Delta$ 1-762-087-11	SWITCH, PUSH (AC POWER)	
S801	1-572-707-11	SWITCH, LEVER	
S901	1-570-577-11	SWITCH, PUSH	
S902	1-570-577-11	SWITCH, PUSH	
S903	1-570-577-11	SWITCH, PUSH	
S904	1-570-577-11	SWITCH, PUSH	
S905	1-570-577-11	SWITCH, PUSH	
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	
<FILTER>			
SWF401	1-760-771-11	FILTER, SURFACE WAVE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T601	$\Delta$ 1-429-139-11	TRANSFORMER, CONVERTER (SRT)	
T605	$\Delta$ 1-424-461-11	TRANSFORMER, LINE FILTER	
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851	$\Delta$ 1-453-190-11	TRANSFORMER ASSY. (FLYBACK)	(NOL-2743/M3B)
<THERMISTOR>			
THP501A	$\Delta$ 1-810-961-11	THERMISTOR, POSITIVE	
<TUNER>			
TU101	$\Delta$ 8-596-323-00	TUNER BT-AC401	
<CRYSTAL>			
X101	1-577-082-11	VIBRATOR, CERAMIC	
X300	1-404-835-31	COIL, IF	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	
*****			
*A-1331-428-A C BOARD, COMPLETE			
*****			
<CAPACITOR>			
C701	1-162-114-00	CERAMIC 0.0047MF 2KV	
C702	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C704	1-130-202-00	FILM 0.022MF 5% 400V	
C708	1-102-114-00	CERAMIC 470PF 10% 50V	
C709	1-102-114-00	CERAMIC 470PF 10% 50V	
C710	1-102-114-00	CERAMIC 470PF 10% 50V	
C712	1-101-361-00	CERAMIC 150PF 5% 50V	
C713	1-102-971-00	CERAMIC 82PF 5% 50V	
C714	1-101-361-00	CERAMIC 150PF 5% 50V	
C716	1-124-122-11	ELECT 100MF 20% 50V	
<CONNECTOR>			
CN701	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
CN703	*1-564-509-11	PLUG, CONNECTOR 6P	
CN704	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D701	8-719-911-19	DIODE 1SS119-25	
D702	8-719-911-19	DIODE 1SS119-25	
D703	8-719-911-19	DIODE 1SS119-25	
D704	8-719-911-19	DIODE 1SS119-25	
D705	8-719-911-19	DIODE 1SS119-25	
D706	8-719-911-19	DIODE 1SS119-25	
D707	8-719-911-19	DIODE 1SS119-25	
D708	8-719-911-19	DIODE 1SS119-25	
D709	8-719-911-19	DIODE 1SS119-25	
D710	8-719-911-19	DIODE 1SS119-25	



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**A**

EF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R414	1-216-041-00	METAL GLAZE 470	5% 1/10W	R617	1-215-924-00	METAL OXIDE 15K	5% 3W F
R415	1-216-033-00	METAL GLAZE 220	5% 1/10W	R619	1-249-377-11	CARBON 0.47	5% 1/4W F
R416	1-216-033-00	METAL GLAZE 220	5% 1/10W	R621	1-211-748-11	FUSIBLE 5.6	5% 5W F
R417	1-216-033-00	METAL GLAZE 220	5% 1/10W	R622	1-217-190-21	WIREWOUND 0.15	10% 2W F
R418	1-216-045-00	METAL GLAZE 680	5% 1/10W	R623	1-247-807-31	CARBON 100	5% 1/4W
R419	1-216-049-00	METAL GLAZE 1K	5 1/10W	R624	1-215-881-11	METAL OXIDE 15	5% 2W F
R420	1-216-039-00	METAL GLAZE 390	5% 1/10W	R625	1-249-424-11	CARBON 3.9K	5% 1/4W
R421	1-216-033-00	METAL GLAZE 220	5% 1/10W	R626	1-249-420-11	CARBON 1.8K	5% 1/4W
R422	1-216-027-00	METAL GLAZE 120	5% 1/10W	R627	1-249-417-11	CARBON 1K	5% 1/4W
R423	1-216-029-00	METAL GLAZE 150	5% 1/10W	R628	1-249-417-11	CARBON 1K	5% 1/4W
R424	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R629	1-249-401-11	CARBON 47	5% 1/4W
R425	1-216-039-00	METAL GLAZE 390	5% 1/10W	R635	1-215-882-00	METAL OXIDE 22	5% 2W F
R426	1-216-029-00	METAL GLAZE 150	5% 1/10W			(KV-G25M11)	
R427	1-216-037-00	METAL GLAZE 330	5% 1/10W	R636	1-215-924-00	METAL OXIDE 15K	5% 3W F
R428	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R801	1-215-920-11	METAL OXIDE 3.3K	5% 3W F
R429	1-216-039-00	METAL GLAZE 390	5% 1/10W	R802	1-249-387-11	CARBON 3.3	5% 1/4W F
R430	1-216-041-00	METAL GLAZE 470	5% 1/10W	R804	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R431	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R805	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R432	1-216-041-00	METAL GLAZE 470	5% 1/10W	R808	1-535-303-00	LEAD, JUMPER (5.0MM)	
R433	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R809	1-247-756-11	CARBON 2.2K	5% 1/2W F
R434	1-216-041-00	METAL GLAZE 470	5% 1/10W	R811	1-216-346-00	METAL OXIDE 0.56	5% 1W F
R435	1-216-041-00	METAL GLAZE 470	5% 1/10W	R812	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R436	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R816	1-249-430-11	CARBON 12K	5% 1/4W
R437	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R820	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R440	1-216-029-00	METAL GLAZE 150	5% 1/10W	R821	1-215-910-00	METAL OXIDE 68	5% 3W F
R441	1-216-021-00	METAL GLAZE 68	5% 1/10W	R822	1-216-429-00	METAL OXIDE 270	5% 1W F
R521	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R823	1-247-756-11	CARBON 2.2K	5% 1/2W F
R552	1-216-105-91	METAL GLAZE 220K	5% 1/10W	R825	1-249-392-11	CARBON 8.2	5% 1/4W F
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)		R826	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R553	1-216-295-00	CONDUCTOR, CHIP (2012)		R827	1-216-097-00	METAL GLAZE 100K	5% 1/10W
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)		R828	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
R555	1-249-429-11	CARBON 10K	5% 1/4W	R829	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R556	1-216-049-00	METAL GLAZE 1K	5 1/10W	R831	1-216-426-11	METAL OXIDE 82	5% 1W F
R557	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R832	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R560	1-216-295-00	CONDUCTOR, CHIP (2012)		R834	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R561	1-249-421-11	CARBON 2.2K	5% 1/4W	R851	1-249-382-11	CARBON 1.2	5% 1/4W F
R562	1-249-420-11	CARBON 1.8K	5% 1/4W	R852	1-249-923-11	CARBON 1K	5% 1/4W F
R563	1-247-885-00	CARBON 180K	5% 1/4W	R853	1-249-377-11	CARBON 0.47	5% 1/4W F
R564	1-216-091-00	METAL GLAZE 56K	5% 1/10W	R854	1-249-377-11	CARBON 0.47	5% 1/4W F
R565	1-216-091-00	METAL GLAZE 56K	5% 1/10W	R855	1-202-818-00	SOLID 1K	20% 1/2W
R566	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R856	1-249-425-11	CARBON 4.7K	5% 1/4W
R569	1-247-883-00	CARBON 150K	5% 1/4W	R857	1-249-438-11	CARBON 56K	5% 1/4W
R570	1-216-295-00	CONDUCTOR, CHIP (2012)		R858	1-216-370-11	METAL OXIDE 1.2	5% 2W FZ
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)		R860	1-247-887-00	CARBON 220K	5% 1/4W
R603	1-249-416-11	CARBON 820	5% 1/4W	R881	1-216-043-91	METAL GLAZE 560	5% 1/10W
R604	1-249-416-11	CARBON 820	5% 1/4W	R882	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R606	1-215-915-11	METAL OXIDE 470	5% 3W F	R883	1-216-121-00	METAL GLAZE 1M	5% 1/10W
R608	1-535-303-00	LEAD, JUMPER (5.0MM)		R895	1-216-348-00	METAL OXIDE 0.82	5% 1W F
R609	1-249-381-11	CARBON 1	5% 1/4W	R898	1-249-421-11	CARBON 2.2K	5% 1/4W
R610	1-215-924-00	METAL OXIDE 15K	5% 3W F	R902	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R611	1-202-933-61	FUSIBLE 0.1	10% 1/2W F	R904	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R612	1-249-377-11	CARBON 0.47	5% 1/4W F	R905	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R613	1-249-377-11	CARBON 0.47	5% 1/4W F	R906	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R614	1-215-877-11	METAL OXIDE 22K	5% 1W F	R907	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R615	1-249-389-11	CARBON 4.7	5% 1/4W	R908	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R616	<b>A</b> 1-216-265-91	METAL 8.2M	5% 1W	R909	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W

## KV-G25M1/G25M11

RM-870

F<sub>1</sub>V<sub>1</sub>

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>				<IC>			
T1601	A-424-436-11	TRANSFORMER LINE FILTER		IC01	8-759-324-28	IC P83C654	
T1602	A-424-436-11	TRANSFORMER LINE FILTER		IC02	8-759-298-63	IC SAA5281ZP/E	
*****				<CHIP CONDUCTOR>			
*A-1347-103-A V1 BOARD, COMPLETE (KV-G25M11)				JR02	1-216-295-00	CONDUCTOR, CHIP (2012)	
*****				JR03	1-216-295-00	CONDUCTOR, CHIP (2012)	
<CAPACITOR>				JR04	1-216-295-00	CONDUCTOR, CHIP (2012)	
C01	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V		JR07	1-216-295-00	CONDUCTOR, CHIP (2012)	
C02	1-124-907-11	ELECT 10MF 20% 50V		JR08	1-216-295-00	CONDUCTOR, CHIP (2012)	
C03	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V		<COIL>			
C04	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		L01	1-410-464-11	INDUCTOR 3.3UH	
C05	1-124-907-11	ELECT 10MF 20% 50V		L03	1-410-464-11	INDUCTOR 3.3UH	
C06	1-163-227-11	CERAMIC CHIP 10PF 0.5PF 50V		L04	1-410-464-11	INDUCTOR 3.3UH	
C07	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		L05	1-410-464-11	INDUCTOR 3.3UH	
C08	1-163-097-00	CERAMIC CHIP 15PF 5% 50		L06	1-410-464-11	INDUCTOR 3.3UH	
C09	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		<TRANSISTOR>			
C10	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C11	1-164-346-11	CERAMIC CHIP 1MF 16V		Q02	8-729-900-53	TRANSISTOR DTC114EK	
C12	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C13	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V		Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C14	1-216-295-00	CONDUCTOR, CHIP (2012)		Q05	8-729-216-22	TRANSISTOR 2SA1162-G	
C15	1-124-482-11	ELECT 33MF 20% 35V		Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C16	1-126-963-11	ELECT 4.7MF 20% 50V		Q07	8-729-019-01	TRANSISTOR 2SD2394-EF	
C17	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q08	8-729-140-96	TRANSISTOR 2SD774-34	
C19	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		Q09	8-729-901-04	TRANSISTOR DTA114EK	
C22	1-124-907-11	ELECT 10MF 20% 50V		<RESISTOR>			
C23	1-163-038-00	CERAMIC CHIP 0.1MF 25V		R01	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
C25	1-124-907-11	ELECT 10MF 20% 50V		R02	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C26	1-124-119-00	ELECT 330MF 20% 16V		R03	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
C27	1-104-665-11	ELECT 100MF 20% 16V		R04	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C28	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R05	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
C29	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R06	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C30	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R07	1-216-025-00	METAL GLAZE 100 5% 1/10W	
C31	1-163-099-00	CERAMIC CHIP 18PF 5% 50V		R08	1-216-025-00	METAL GLAZE 100 5% 1/10W	
<CONNECTOR>				R09	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
CN01	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P		R10	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
<DIODE>				R11	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
D001	8-719-105-51	DIODE RD3.6M-B1		R12	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
D03	8-719-914-43	DIODE DAN202K		R13	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
D04	8-719-105-91	DIODE RD5.6M-B2		R16	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D05	8-719-914-44	DIODE DAP202K		R17	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
D06	8-719-914-43	DIODE DAN202K		R18	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
<FERRITE BEAD>				R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
FB01	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R21	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
				R22	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R24	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R25	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R26	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

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Replace only with part number specified.



F. NO.	PART NO.	DESCRIPTION	REMARK
D711	8-719-911-19	DIODE 1SS119-25	
D712	8-719-911-19	DIODE 1SS119-25	
D716	8-719-911-19	DIODE 1SS119-25	
D717	8-719-121-24	DIODE RD9.1ESL	

## &lt;JACK&gt;

J701  $\Delta$  1-251-239-21 SOCKET, CRT

## &lt;COIL&gt;

L701	1-410-667-31	INDUCTOR 22UH	
L702	1-535-303-00	LEAD, JUMPER (5.0MM)	
L703	1-408-609-41	INDUCTOR 33UH	
L704	1-535-303-00	LEAD, JUMPER (5.0MM)	
L705	1-408-609-41	INDUCTOR 33UH	

L706	1-535-303-00	LEAD, JUMPER (5.0MM)	
L707	1-408-609-41	INDUCTOR 33UH	

## &lt;TRANSISTOR&gt;

Q701	8-729-326-11	TRANSISTOR 2SC2611	
Q702	8-729-326-11	TRANSISTOR 2SC2611	
Q703	8-729-326-11	TRANSISTOR 2SC2611	
Q704	8-729-326-11	TRANSISTOR 2SC2611	
Q705	8-729-326-11	TRANSISTOR 2SC2611	

Q706	8-729-326-11	TRANSISTOR 2SC2611	
Q707	8-729-200-17	TRANSISTOR 2SA1091-0	
Q708	8-729-200-17	TRANSISTOR 2SA1091-0	
Q709	8-729-200-17	TRANSISTOR 2SA1091-0	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE	

Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q714	8-729-255-12	TRANSISTOR 2SC2551-0	

## &lt;RESISTOR&gt;

R701	1-244-941-00	CARBON 680K	5%	1/2W	
R702	1-249-496-11	CARBON 100K	5%	1/2W	
R703	1-249-496-11	CARBON 100K	5%	1/2W	
R705	1-216-392-11	METAL OXIDE 1.8	5%	3W	F
R710	1-215-899-11	METAL OXIDE 15K	5%	2W	F

R711	1-247-758-11	CARBON 3.3K	5%	1/2W	
R712	1-215-899-11	METAL OXIDE 15K	5%	2W	F
R713	1-247-758-11	CARBON 3.3K	5%	1/2W	
R714	1-215-899-11	METAL OXIDE 15K	5%	2W	F
R715	1-247-758-11	CARBON 3.3K	5%	1/2W	

R716	1-249-899-11	CARBON 100	5%	1/4W	F
R717	1-249-405-11	CARBON 100	5%	1/4W	F
R718	1-249-899-11	CARBON 100	5%	1/4W	F
R719	1-215-487-00	METAL 560K	1%	1/4W	
R720	1-249-417-11	CARBON 1K	5%	1/4W	F

R721	1-215-491-00	METAL 820K	1%	1/4W	
R722	1-249-923-11	CARBON 1K	5%	1/4W	F
R723	1-215-489-00	METAL 680K	1%	1/4W	
R724	1-249-417-11	CARBON 1K	5%	1/4W	F
R725	1-249-422-11	CARBON 2.7K	5%	1/4W	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R726	1-249-422-11	CARBON 2.7K	5% 1/4W
R727	1-249-422-11	CARBON 2.7K	5% 1/4W
R728	1-215-410-00	METAL 360	1% 1/4W
R729	1-215-410-00	METAL 360	1% 1/4W
R730	1-215-410-00	METAL 360	1% 1/4W

R731	1-535-303-00	LEAD, JUMPER (5.0MM)	
R732	1-535-303-00	LEAD, JUMPER (5.0MM)	
R733	1-535-303-00	LEAD, JUMPER (5.0MM)	
R734	1-247-739-11	CARBON 100	5% 1/2W
R738	1-247-807-31	CARBON 100	5% 1/4W

R739	1-247-807-31	CARBON 100	5% 1/4W	
R740	1-247-807-31	CARBON 100	5% 1/4W	
R747	1-216-489-11	METAL OXIDE 27K	5%	3W F
R749	1-216-490-11	METAL OXIDE 39K	5%	3W F
R751	1-215-926-00	METAL OXIDE 33K	5%	3W F

R753	1-249-429-11	CARBON 10K	5%	1/4W	
R755	1-249-427-11	CARBON 6.8K	5%	1/4W	
R756	1-249-427-11	CARBON 6.8K	5%	1/4W	
R757	1-249-427-11	CARBON 6.8K	5%	1/4W	
R758	1-249-419-11	CARBON 1.5K	5%	1/4W	

R759	1-249-419-11	CARBON 1.5K	5%	1/4W	
R760	1-249-419-11	CARBON 1.5K	5%	1/4W	F

## &lt;VARIABLE RESISTOR&gt;

RV701 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M

\*\*\*\*\*

\*A-1241-190-A F1 BOARD, COMPLETE (KV-G25M1 (RUSS))  
\*\*\*\*\*

1-533-223-11 CLIP, FUSE

## &lt;CAPACITOR&gt;

C1601  $\Delta$  1-104-706-51 FILM 0.22MF 20% 250V

## &lt;CONNECTOR&gt;

CN1601 \*1-580-843-11 PIN, CONNECTOR (POWER)  
CN1602 \*1-580-843-11 PIN, CONNECTOR (POWER)

## &lt;FUSE&gt;

F1601  $\Delta$  1-532-465-31 FUSE TIME-LAG (RET) 3.15A/250V

## &lt;RESISTOR&gt;

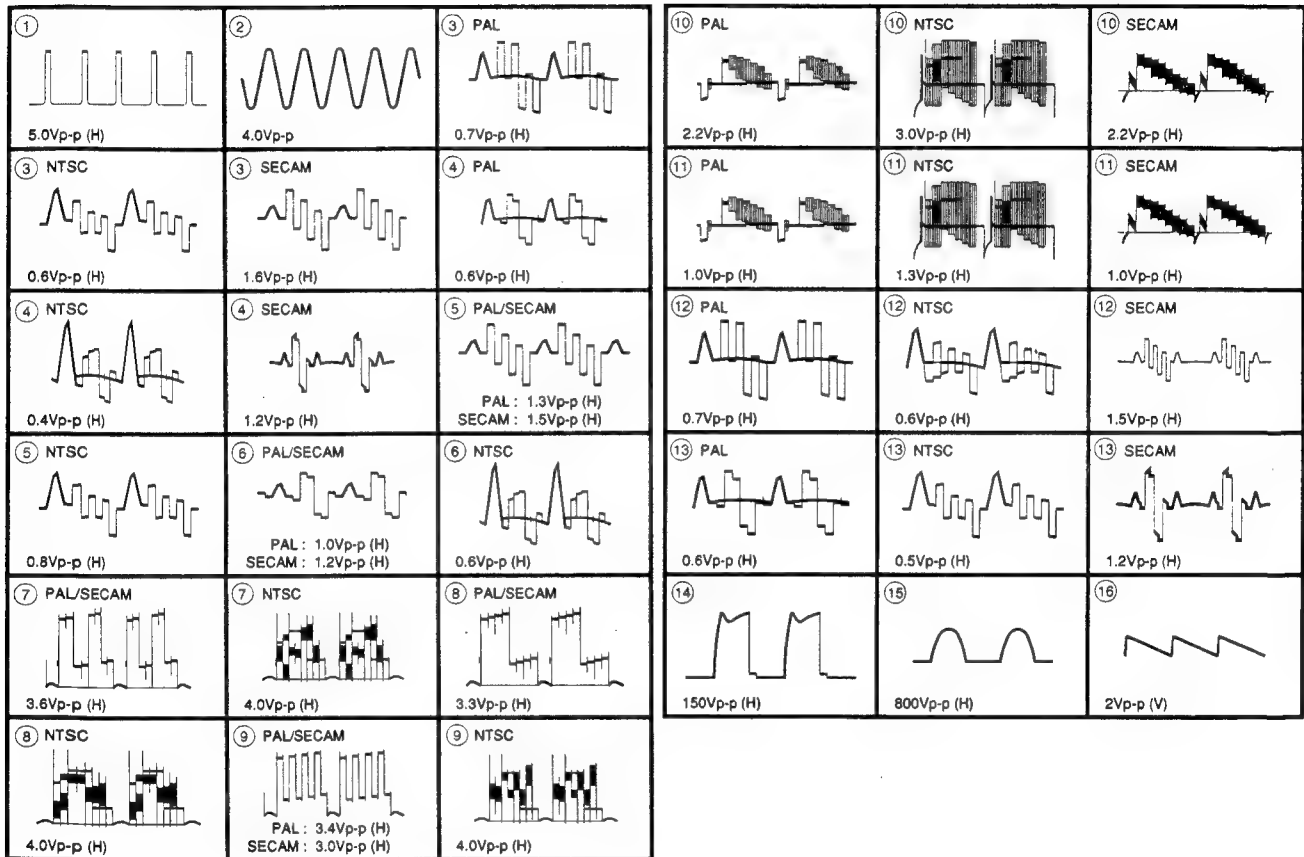
R1601  $\Delta$  1-202-916-91 SOLID 5.6M 20% 1/2W

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

V<sub>1</sub>

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R27	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W			REMOTE COMMANDER	
R28	1-216-025-00	METAL GLAZE 100	5% 1/10W			*****	
R29	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R30	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W				
R31	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R32	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W				
R33	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R34	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R35	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R36	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R37	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
R38	1-260-085-11	CARBON 68	5% 1/2W				
R41	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W				
R43	1-216-295-00	CONDUCTOR, CHIP (2012)					
R44	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W				
R45	1-216-021-00	METAL GLAZE 68	5% 1/10W				
R46	1-216-021-00	METAL GLAZE 68	5% 1/10W				
R47	1-216-021-00	METAL GLAZE 68	5% 1/10W				
		<CRYSTAL>					
X01	1-579-266-31	CRYSTAL VIBRATOR					
*****							
		MISCELLANEOUS					
		*****					
		1-544-453-21 SPEAKER (2CM)					
		1-504-305-11 SPEAKER (5X12CM)					
		$\Delta$ 8-733-234-05 PICTURE TUBE (MGKWL10K)					
		$\Delta$ 8-451-404-11 DEFLECTION Yoke (Y25GLAS)					
		$\Delta$ 1-403-019-11 COIL, DEMAGNETIZATION					
		$\Delta$ 1-574-062-22 CORD, POWER (WITH CONNECTOR)					
		2-542500					
		(KV-G25M1 (ME)/M1 (RUSS)/M11)					
		$\Delta$ 1-769-609-21 CORD, POWER (WITH CONNECTOR)					
		(KV-G25M1 (HK))					
*****							
		ACCESSORIES AND PACKING MATERIALS					
		*****					
		3-800-141-21 MANUAL, INSTRUCTION (KV-G25M1 (ME))					
		3-800-141-41 MANUAL, INSTRUCTION					
		(KV-G25M1 (HK)/M11)					
		3-800-141-51 MANUAL, INSTRUCTION (KV-G25M1 (RUSS))					
		* 4-029-168-01 BAG, PROTECTION (KV-G25M11)					
		* 4-039-372-01 BAG, PROTECTION (KV-G25M1)					
		3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)					
		4-392-003-11 BAND, HOLD					
		4-392-004-11 CLIP					
		$\Delta$ 1-568-008-11 ADAPTER, CONVERSION 2P					
		(KV-G25M1 (ME)/M1 (RUSS))					
		* 4-047-806-01 CUSHION (UPPER) (ASSY) (KV-G25M1)					
		* 4-047-807-01 CUSHION (LOWER) (ASSY) (KV-G25M1)					
		* 4-047-808-01 INDIVIDUAL CARTON (KV-G25M1)					

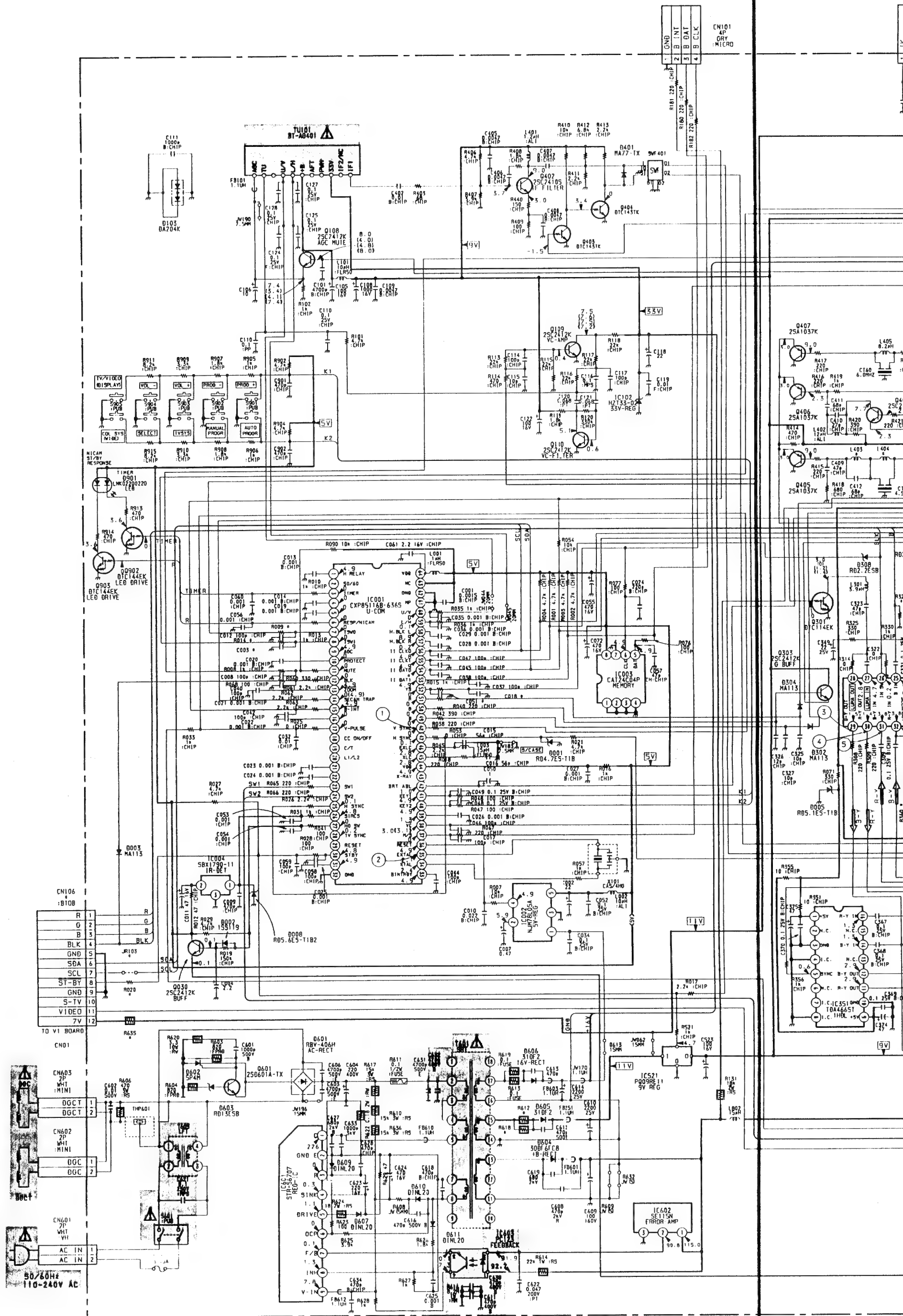
## A BOARD WAVEFORMS



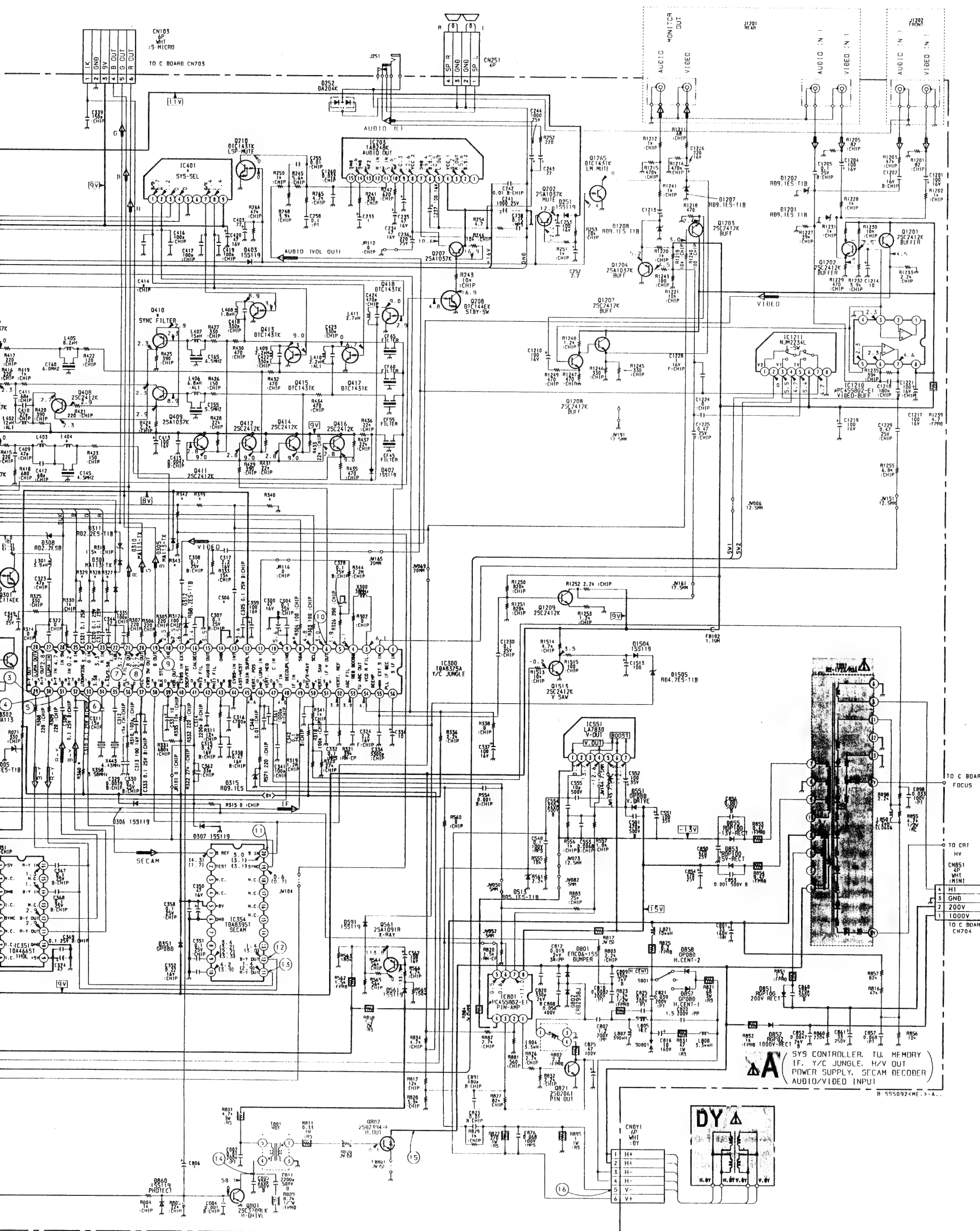
(1) Schematic Diagram of A Board

1 2 3 4 5 6 7 8 9 10 11

A  
B  
C  
D  
E  
F  
G  
H  
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J  
K  
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P











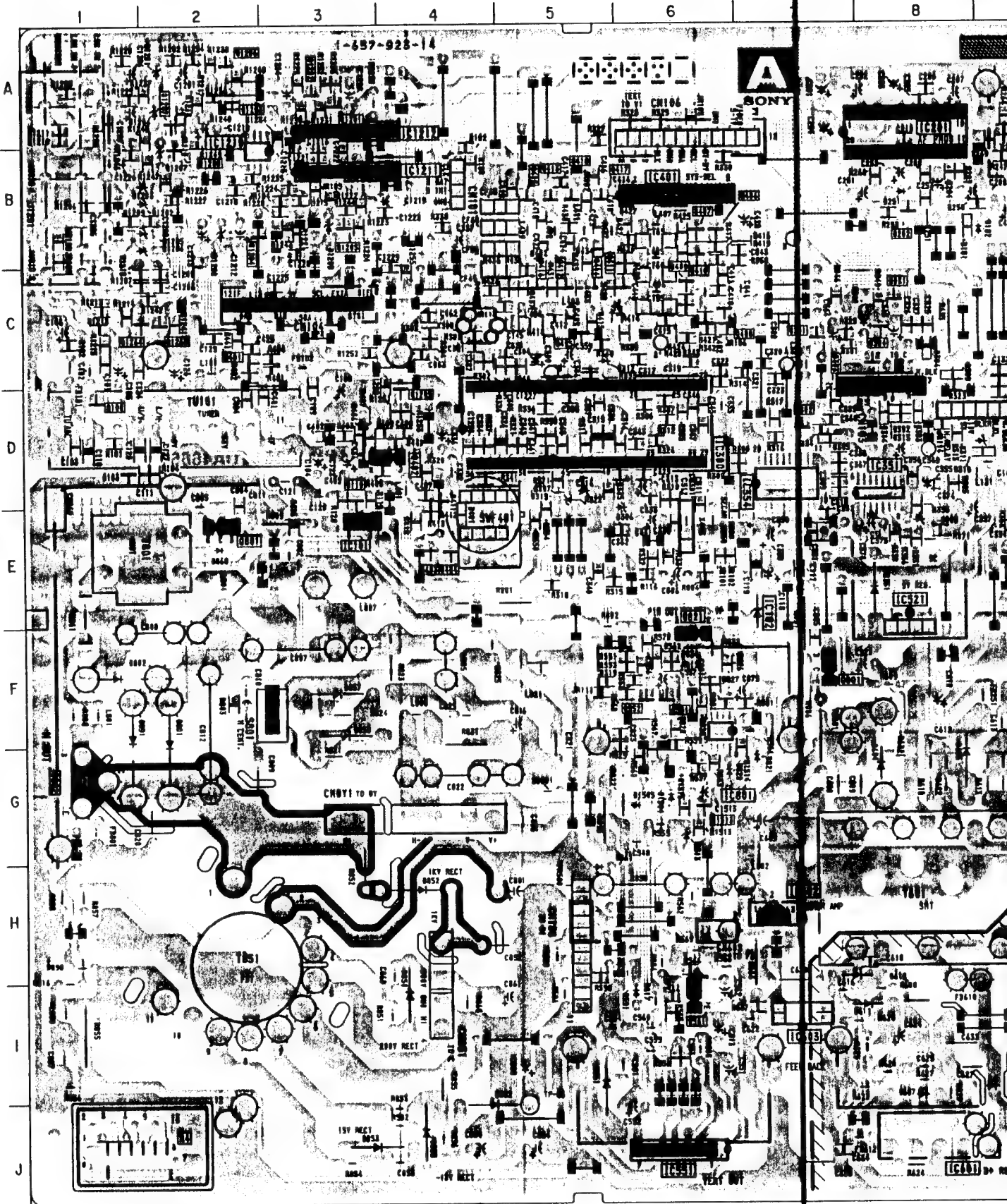
**A** [ SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE, H/V OUT ]  
[ POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT ]

PRINTED WIRING BOARD

A BOARD

IC		DIODE	
IC001	D-11	D001	D-9
IC002	E-10	D002	C-12
IC003	E-11	D003	C-10
IC004	I-13	D004	E-12
IC005	E-10	D005	E-8
IC101	E-3	D006	I-13
IC102	E-7	D007	E-10
IC201	A-8	D008	I-13
IC202	B-10	D101	B-8
IC203	B-10	D102	B-9
IC300	D-6	D103	D-1
IC351	D-8	D251	B-8
IC354	D-7	D252	B-13
IC401	B-6	D301	C-7
IC521	E-8	D302	D-8
IC551	J-6	D303	D-8
IC601	J-8	D304	C-8
IC602	H-7	D305	D-7
IC603	I-7	D306	E-6
IC801	G-6	D307	D-5
IC1210	A-2	D308	C-10
IC1211	B-3	D309	C-8
IC1212	A-3	D310	D-9
TRANSISTOR		D311	D-9
		D312	C-5
Q001	F-7	D313	D-8
Q030	C-12	D314	D-8
Q031	C-8	D315	D-5
Q108	D-1	D401	E-4
Q109	E-12	D402	B-5
Q110	D-3	D403	B-9
Q202	B-8	D513	G-6
Q207	B-10	D551	I-5
Q208	B-10	D561	H-5
Q209	B-9	D562	F-6
Q210	B-9	D581	H-5
Q301	C-7	D582	I-4
Q302	D-7	D591	I-6
Q303	C-7	D601	H-11
Q304	C-8	D602	G-11
Q351	D-9	D603	G-11
Q401	C-2	D604	G-8
Q402	D-4	D605	G-8
Q403	E-4	D606	G-9
Q404	E-4	D607	I-8
Q405	C-5	D609	I-9
Q406	B-6	D610	H-7
Q407	B-6	D611	I-7
Q408	C-6	D613	E-9
Q409	C-6	D614	E-10
Q410	B-6		
Q411	B-5		
Q412	C-5		
Q413	B-5		
Q414	C-5		
Q415	B-5		
Q416	C-5		
Q417	B-5		
Q418	B-5		
Q551	F-6		
Q552	F-6		
Q561	I-6		
Q601	G-12		
Q801	E-2		
Q802	G-1		

- A Board -





**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

SECTION 9  
ELECTRICAL PARTS LIST

A

## NOTE:

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

## • CAPACITORS

PF :  $\mu\text{F}$ 

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1297-773-A	A BOARD, COMPLETE (KV-G25M11)			C051	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
	*****						(KV-G25M11)
* A-1297-768-A	A BOARD, COMPLETE (KV-G25M1)			C052	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
	*****			C053	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
* 1-580-798-11	CONNECTOR PIN (DY) 6P			C055	1-126-941-11	ELECT 470MF	20% 16V
4-039-460-01	HOLDER, FBT			C056	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
4-382-854-11	SCREW (M3X10), P, SW (+)			C057	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3			C058	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
				C059	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
				C060	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
	<CAPACITOR>			C061	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C001	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	C072	1-126-941-11	ELECT 470MF	20% 16V
C002	1-126-965-11	ELECT 22MF	20% 50V	C074	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C003	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C101	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
C004	1-126-961-11	ELECT 2.2MF	20% 50V	C105	1-104-665-11	ELECT 100MF	20% 16V
C007	1-124-902-00	ELECT 0.47MF	20% 50V	C106	1-124-907-11	ELECT 10MF	20% 50V
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C108	1-126-942-61	ELECT 1000MF	20% 16V
C009	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C109	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C010	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V	C110	1-136-165-00	FILM 0.1MF	5% 50V
C011	1-126-967-11	ELECT 47MF	20% 16V	C111	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C012	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C114	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C013	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C115	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C014	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C116	1-136-165-00	FILM 0.1MF	5% 50V
C015	1-101-884-00	CERAMIC 56PF	5% 50V	C117	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C016	1-101-884-00	CERAMIC 56PF	5% 50V	C118	1-126-965-11	ELECT 22MF	20% 50V
C017	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C119	1-163-059-00	CERAMIC CHIP 0.01MF	50V
C018	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C120	1-130-493-00	MYLAR 0.068MF	5% 50V
			(KV-G25M11)	C121	1-130-493-00	MYLAR 0.068MF	5% 50V
C019	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C122	1-104-665-11	ELECT 100MF	20% 16V
C020	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C124	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C021	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C125	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C022	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C127	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
C023	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C128	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V
C024	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C233	1-124-903-11	ELECT 1MF	20% 50V
C025	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C234	1-126-967-11	ELECT 47MF	20% 16V
C026	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C235	1-126-967-11	ELECT 47MF	20% 16V
C027	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C236	1-126-968-11	ELECT 100MF	20% 35V
C028	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C237	1-104-665-11	ELECT 100MF	20% 16V
C029	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C238	1-136-167-00	FILM 0.15MF	5% 50V
C034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C241	1-126-942-61	ELECT 1000MF	20% 25V
C035	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C242	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C036	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C243	1-128-551-11	ELECT 22MF	20% 25V
C037	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C244	1-126-942-61	ELECT 1000MF	20% 25V
C038	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C253	1-104-665-11	ELECT 100MF	20% 16V
C040	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C255	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C042	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C258	1-130-495-00	MYLAR 0.1MF	5% 50V
C044	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C300	1-126-967-11	ELECT 47MF	20% 16V
C045	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C046	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C305	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C047	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C048	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				(KV-G25M1)
C049	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C306	1-216-295-91	CONDUCTOR, CHIP (KV-G25M11)	
C050	1-124-903-11	ELECT 1MF	20% 50V	C307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

**KV-G25M1/G25M11**  
RM-870



Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
C309	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C311	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C312	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C313	1-104-665-11	ELECT 100MF	20% 16V
C314	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C315	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C316	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C317	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C319	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C321	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C322	1-216-295-91	CONDUCTOR, CHIP	
C323	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C324	1-164-337-11	CERAMIC CHIP 2.2MF	16V
C325	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C326	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C327	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C328	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-163-016-00	CERAMIC CHIP 0.0039MF	10% 50V
C330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C331	1-124-907-11	ELECT 10MF	20% 50V
C332	1-136-165-00	FILM 0.1MF	5% 50V
C333	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C334	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C335	1-102-973-00	CERAMIC 100PF	5% 50V
C336	1-124-907-11	ELECT 10MF	20% 50V
C337	1-104-665-11	ELECT 100MF	20% 16V
C338	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V
C339	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C340	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C341	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C342	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C344	1-126-963-11	ELECT 4.7MF	20% 50V
C349	1-128-551-11	ELECT 22MF	20% 25V
C350	1-126-967-11	ELECT 47MF	20% 16V
C351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C352	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C359	1-104-665-11	ELECT 100MF	20% 16V
C361	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C362	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C367	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C368	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C374	1-124-910-11	ELECT 47MF	20% 50V
C375	1-124-910-11	ELECT 47MF	20% 50V
C402	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C403	1-126-965-11	ELECT 22MF	20% 50V
C405	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C406	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C407	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C408	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C409	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C410	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C411	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C412	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C413	1-104-665-11	ELECT 100MF	20% 16V
C414	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C415	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C416	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C417	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C418	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C419	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C420	1-126-967-11	ELECT 47MF	20% 16V
C422	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C423	1-163-129-00	CERAMIC CHIP 330PF	5% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C424	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C501	1-102-228-00	CERAMIC 470PF	10% 500V
C523	1-104-665-11	ELECT 100MF	20% 16V
C548	1-106-220-00	MYLAR 0.1MF	10% 100V
C551	1-126-968-11	ELECT 100MF	20% 35V
C552	1-126-968-11	ELECT 100MF	20% 35V
C553	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C554	1-102-244-00	CERAMIC 220PF	10% 500V
C555	1-101-804-00	CERAMIC 10PF	5% 500V
C562	1-104-665-11	ELECT 100MF	20% 16V
C601	1-162-318-11	CERAMIC 0.001MF	10% 500V
C602	1-102-050-00	CERAMIC 0.01MF	500V
C603	1-161-830-00	CERAMIC 0.0047MF	500V
C604	1-113-608-11	ELECT(SOLID) 470MF	20% 400V
C606	1-161-830-00	CERAMIC 0.0047MF	500V
C608	1-104-332-11	CERAMIC 470PF	10% 2KV
C609	1-124-347-00	ELECT 100MF	20% 160V
C610	1-126-943-11	ELECT 2200MF	20% 25V
C611	$\Delta$ 1-104-985-51	CERAMIC 470PF	10% 400V
C612	1-102-228-00	CERAMIC 470PF	10% 500V
C613	1-102-824-00	CERAMIC 470PF	5% 50V
C614	1-126-943-11	ELECT 2200MF	20% 25V
C616	1-102-228-00	CERAMIC 470PF	10% 500V
C618	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C619	1-162-116-00	CERAMIC 680PF	10% 2KV
C621	$\Delta$ 1-104-705-51	FILM 0.1MF	20% 250V
C622	1-106-383-00	MYLAR 0.047MF	10% 200V
C623	1-124-120-11	ELECT 220MF	20% 16V
C624	1-126-942-61	ELECT 1000MF	20% 16V
C625	1-102-074-00	CERAMIC 0.001MF	10% 50V
C627	1-162-116-00	CERAMIC 680PF	10% 2KV
C630	$\Delta$ 1-104-985-51	CERAMIC 470PF	10% 400V
C631	1-161-830-00	CERAMIC 0.0047MF	500V
C632	$\Delta$ 1-104-985-51	CERAMIC 470PF	10% 400V
C633	1-161-754-00	CERAMIC 0.001MF	10% 3KV
C634	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C801	1-123-024-21	ELECT 33MF	160V
C802	1-106-367-00	MYLAR 0.01MF	10% 200V
C804	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C805	1-102-244-00	CERAMIC 220PF	10% 500V
C806	1-124-903-11	ELECT 1MF	20% 50V
C807	1-136-540-11	FILM 0.82MF	5% 200V
C808	1-130-895-00	FILM 0.056MF	10% 400V
C809	1-162-115-00	CERAMIC 330PF	10% 2KV
C810	1-106-365-00	MYLAR 0.0082MF	200V
C811	1-162-318-11	CERAMIC 0.001MF	10% 500V
C812	1-136-617-11	FILM 0.019MF	3% 2KV
C816	1-123-947-00	ELECT 10MF	20% 160V
C820	1-162-115-00	CERAMIC 330PF	10% 2KV
C821	1-106-391-12	MYLAR 0.1MF	10% 200V
C822	1-136-541-11	FILM 1.5MF	5% 200V
C823	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C825	1-106-367-00	MYLAR 0.01MF	10% 200V
C850	1-124-480-11	ELECT 470MF	20% 25V
C852	1-104-574-11	CERAMIC 0.0047MF	10% 2KV
C853	1-162-318-11	CERAMIC 0.001MF	10% 500V
C854	1-124-480-11	ELECT 470MF	20% 25V
C856	1-162-318-11	CERAMIC 0.001MF	10% 500V
C857	1-136-165-00	FILM 0.1MF	5% 50V
C860	1-102-228-00	CERAMIC 470PF	10% 500V
C861	1-107-654-11	ELECT 33MF	20% 250V
C875	1-124-910-11	ELECT 47MF	20% 50V
C876	1-108-702-11	MYLAR 0.068MF	10% 100V
C891	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C898	1-108-702-11	MYLAR 0.068MF	10% 100V
C901	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C902	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C1201	1-104-665-11	ELECT 100MF	20% 16V
C1202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1204	1-104-665-11	ELECT 100MF 20%	16V	D561	8-719-911-19	DIODE 1SS119-25	
C1205	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V	D591	8-719-911-19	DIODE 1SS119-25	
C1210	1-104-665-11	ELECT 100MF 20%	16V	D601	8-719-052-84	DIODE LN4SB60	
C1213	1-124-903-11	ELECT 1MF 20%	50V	D602	8-719-108-18	THYRISTOR 5P6M	
C1214	1-124-907-11	ELECT 10MF 20%	50V	D603	8-719-110-36	DIODE RD13ESB2	
C1217	1-104-665-11	ELECT 100MF 20%	16V	D604	8-719-301-64	DIODE RU4DS	
C1218	1-163-123-00	CERAMIC CHIP 180PF 5%	50V	D605	8-719-510-73	DIODE S3L20UF4	
C1219	1-104-665-11	ELECT 100MF 20%	16V	D606	8-719-510-73	DIODE S3L20UF4	
C1221	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D607	8-719-510-26	DIODE D1NL20-TA	
C1224	1-216-295-91	CONDUCTOR, CHIP		D609	8-719-510-26	DIODE D1NL20-TA	
C1225	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D610	8-719-510-26	DIODE D1NL20-TA	
C1226	1-124-120-11	ELECT 220MF 20%	16V	D611	8-719-510-26	DIODE D1NL20-TA	
C1228	1-164-346-11	CERAMIC CHIP 1MF	16V	D801	8-719-945-80	DIODE ERC06-15S	
C1229	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D802	8-719-900-26	DIODE ERD29-08J	
C1230	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V	D851	8-719-302-43	DIODE EL1Z	
C1260	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V	D852	8-719-028-72	DIODE RGP02-17EL-6433	
C1513	1-124-122-11	ELECT 100MF 20%	50V	D853	8-719-302-43	DIODE EL1Z	
<FILTER>				D855	8-719-302-43	DIODE EL1Z	
CF45	1-527-943-00	FILTER, CERAMIC		D857	8-719-908-03	DIODE GP08D	
CF55	1-567-099-00	FILTER, CERAMIC		D858	8-719-908-03	DIODE GP08D	
CF60	1-567-100-00	FILTER, CERAMIC		D860	8-719-911-19	DIODE 1SS119-25	
CF65	1-567-101-11	FILTER, CERAMIC		D891	8-719-945-80	DIODE ERC06-15S	
<CONNECTOR>				D901	8-719-054-60	DIODE LNK0220022G	
CN101	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P		D1201	8-719-121-24	DIODE RD9.1ESL	
CN103	*1-564-509-11	PLUG, CONNECTOR 6P		D1202	8-719-121-24	DIODE RD9.1ESL	
CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	(KV-G25M11)	D1207	8-719-121-24	DIODE RD9.1ESL	
CN251	*1-564-507-11	PLUG, CONNECTOR 4P		D1208	8-719-121-24	DIODE RD9.1ESL	
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)		D1504	8-719-911-19	DIODE 1SS119-25	
CN602	*1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P		D1505	8-719-109-81	DIODE RD4.7ESB2	
CN603	*1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P		<FUSE>			
CN851	*1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P		F601	$\Delta$ 1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V	
<TRIMMER>					1-533-223-11	CLIP, FUSE ; F601	
CT45	1-579-690-11	TRAP, CERAMIC		<FERRITE BEAD>			
CT55	1-404-801-11	TRAP, CERAMIC		FB101	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
CT60	1-409-429-11	TRAP, CERAMIC		FB102	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)		FB251	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
<DIODE>				FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D001	8-719-109-81	DIODE RD4.7ESB2		FB603	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D002	8-719-911-19	DIODE 1SS119-25		FB610	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D003	8-719-041-97	DIODE MA113-(TX)		FB612	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D005	8-719-109-84	DIODE RD5.1ESB1		FB801	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D008	8-719-109-89	DIODE RD5.6ESB2		<IC>			
D103	8-719-914-42	DIODE DA204K		IC001	8-752-873-18	IC CXP85116B-642S	
D251	8-719-911-19	DIODE 1SS119-25			*4-049-131-01	CASE (A), SHIELD ; IC001	
D252	8-719-914-42	DIODE DA204K		IC002	8-759-805-37	IC L78LR05D-MA	
D301	8-719-041-97	DIODE MA113-(TX)		IC003	8-759-093-95	IC CAT24C04P	
D305	8-719-041-97	DIODE MA113-(TX)		IC004	8-741-790-11	ELEMENT, RAY-CATCHER SBX1790-11	
D306	8-719-911-19	DIODE 1SS119-25		IC102	8-759-157-40	IC uPC574J	
D307	8-719-911-19	DIODE 1SS119-25		IC203	8-759-336-30	IC TA8223K	
D308	8-719-109-54	DIODE RD2.2ESB2		IC300	8-759-365-26	IC TDA8375A	
D310	8-719-041-97	DIODE MA113-(TX)		IC351	8-759-288-85	IC TDA4665T-T	
D311	8-719-109-68	DIODE RD3.6ESB1		IC354	8-759-251-56	IC TDA8395T	
D312	8-719-110-08	DIODE RD8.2ESB2		IC401	8-759-800-65	IC LA7910	
D315	8-719-121-24	DIODE RD9.1ESL		IC521	8-759-195-63	IC PQ09RE11	
D351	8-719-908-03	DIODE GP08D		IC551	8-759-801-98	IC LA7830	
D399	8-719-121-24	DIODE RD9.1ESL		IC601	8-749-010-84	IC STR-S6708	
D401	8-719-421-40	DIODE MA77		IC602	8-749-920-61	IC SE-135N	
D402	8-719-911-19	DIODE 1SS119-25		IC603	$\Delta$ 8-749-010-59	PHOTO COUPLER PC123F2	
D403	8-719-911-19	DIODE 1SS119-25		IC801	8-759-100-96	IC uPC4558G2	
D513	8-719-109-84	DIODE RD5.1ESB1		IC1210	8-759-100-96	IC uPC4558G2	
D551	8-719-908-03	DIODE GP08D		IC1211	8-759-711-23	IC NJM2234L	

**KV-G25M1/G25M11**  
RM-870



REF. NO.	PART NO.	DESCRIPTION	REMARK
		<JACK>	
J251	1-770-785-11	JACK	
J1201	1-770-660-11	JACK BLOCK, PIN 4P	
J1202	1-695-238-11	JACK BLOCK, PIN 2P	
		<CHIP CONDUCTOR>	
JR101	1-216-295-91	CONDUCTOR, CHIP	
JR103	1-216-295-91	CONDUCTOR, CHIP (KV-G25M11)	
JR112	1-216-295-91	CONDUCTOR, CHIP	
JR116	1-216-295-91	CONDUCTOR, CHIP	
		<COIL>	
L001	1-408-397-00	INDUCTOR 1UH	
L002	1-410-509-11	INDUCTOR 10UH	
L003	1-408-411-00	INDUCTOR 15UH	
L101	1-410-470-11	INDUCTOR 10UH	
L301	1-408-404-00	INDUCTOR 3.9UH	
L401	1-410-498-11	INDUCTOR 1.2UH	
L402	1-410-510-11	INDUCTOR 12UH	
L403	1-410-510-11	INDUCTOR 12UH	
L404	1-410-508-11	INDUCTOR 8.2UH	
L405	1-410-508-11	INDUCTOR 8.2UH	
L406	1-410-507-11	INDUCTOR 6.8UH	
L407	1-410-511-11	INDUCTOR 15UH	
L408	1-410-500-11	INDUCTOR 1.8UH	
L409	1-410-501-11	INDUCTOR 2.2UH	
L410	1-410-501-11	INDUCTOR 2.2UH	
L411	1-410-502-11	INDUCTOR 2.7UH	
L802	1-412-527-11	INDUCTOR 15UH	
L804	1-459-075-00	COIL,DYNAMIC CONVERSION CHOKE	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY	
L807	1-459-390-00	COIL (WITH CORE)	
L808	1-412-553-11	INDUCTOR 3.3mH	
L821	1-459-111-00	COIL, DRAM CORE (CDI)	
L850	1-408-947-00	INDUCTOR 2.2mH	
		<TRANSISTOR>	
Q030	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q108	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q109	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q110	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G	
Q208	8-729-421-19	TRANSISTOR UN2213	
Q210	8-729-424-67	TRANSISTOR UN2216	
Q301	8-729-421-22	TRANSISTOR UN2211	
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
Q403	8-729-424-67	TRANSISTOR UN2216	
Q404	8-729-424-67	TRANSISTOR UN2216	
Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
Q411	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q412	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q413	8-729-424-67	TRANSISTOR UN2216	
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q415	8-729-424-67	TRANSISTOR UN2216	
Q416	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q417	8-729-424-67	TRANSISTOR UN2216	
Q418	8-729-424-67	TRANSISTOR UN2216	
Q561	8-729-200-17	TRANSISTOR 2SA1091-O	
Q601	8-729-422-27	TRANSISTOR 2SD601A-Q	

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q801	8-729-140-96	TRANSISTOR 2SD774-34	
Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
Q902	8-729-421-19	TRANSISTOR UN2213	
Q903	8-729-421-19	TRANSISTOR UN2213	
Q1201	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1202	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1203	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1207	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1208	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1209	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1265	8-729-424-67	TRANSISTOR UN2216	
Q1513	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<RESISTOR>	
R001	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R002	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R003	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R004	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R007	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R008	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R009	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R010	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R012	1-216-017-91	METAL GLAZE 47	5% 1/10W
R013	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R014	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R015	1-216-043-91	METAL GLAZE 560	5% 1/10W
R016	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R017	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R018	1-216-033-00	METAL GLAZE 220	5% 1/10W
R019	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R020	1-216-025-91	METAL GLAZE 100	5% 1/10W (KV-G25M11)
R021	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R025	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R027	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R028	1-216-025-91	METAL GLAZE 100	5% 1/10W
R029	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R031	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R033	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R035	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R036	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R038	1-216-033-00	METAL GLAZE 220	5% 1/10W
R040	1-216-033-00	METAL GLAZE 220	5% 1/10W
R041	1-216-025-91	METAL GLAZE 100	5% 1/10W
R042	1-216-039-00	METAL GLAZE 390	5% 1/10W
R045	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R047	1-216-025-91	METAL GLAZE 100	5% 1/10W
R048	1-216-025-91	METAL GLAZE 100	5% 1/10W
R053	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R054	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R057	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R060	1-216-037-00	METAL GLAZE 330	5% 1/10W
R061	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R062	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R063	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R065	1-216-033-00	METAL GLAZE 220	5% 1/10W
R066	1-216-033-00	METAL GLAZE 220	5% 1/10W
R067	1-216-033-00	METAL GLAZE 220	5% 1/10W
R068	1-216-025-91	METAL GLAZE 100	5% 1/10W
R071	1-216-037-00	METAL GLAZE 330	5% 1/10W
R076	1-216-025-91	METAL GLAZE 100	5% 1/10W
R077	1-216-025-91	METAL GLAZE 100	5% 1/10W
R090	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R101	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R102	1-216-049-91	METAL GLAZE 1K	5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R113	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R344	1-216-129-00	METAL GLAZE 2.2M	5% 1/10W
R114	1-216-041-00	METAL GLAZE 470	5% 1/10W	R351	1-216-001-00	METAL GLAZE 10	5% 1/10W
R115	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R355	1-216-001-00	METAL GLAZE 10	5% 1/10W
R116	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R356	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R117	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R360	1-208-291-11	METAL GLAZE 4.7M	5% 1/10W
R118	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R403	1-216-021-00	METAL GLAZE 68	5% 1/10W
R119	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R406	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R120	1-216-109-00	METAL GLAZE 330K	5% 1/10W	R407	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R131	1-216-464-11	METAL OXIDE 18K	5% 2W F	R408	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R180	1-216-033-00	METAL GLAZE 220	5% 1/10W	R409	1-216-025-91	METAL GLAZE 100	5% 1/10W
R181	1-216-033-00	METAL GLAZE 220	5% 1/10W	R410	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R182	1-216-033-00	METAL GLAZE 220	5% 1/10W	R411	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R241	1-216-037-00	METAL GLAZE 330	5% 1/10W	R412	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R242	1-216-044-00	METAL GLAZE 620	5% 1/10W	R413	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R243	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R414	1-216-041-00	METAL GLAZE 470	5% 1/10W
R244	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R415	1-216-033-00	METAL GLAZE 220	5% 1/10W
R245	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W	R416	1-216-033-00	METAL GLAZE 220	5% 1/10W
R248	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W	R417	1-216-033-00	METAL GLAZE 220	5% 1/10W
R250	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R418	1-216-045-00	METAL GLAZE 680	5% 1/10W
R251	1-216-295-91	CONDUCTOR, CHIP		R419	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R252	1-249-411-11	CARBON 330	5% 1/4W	R420	1-216-039-00	METAL GLAZE 390	5% 1/10W
R253	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R421	1-216-033-00	METAL GLAZE 220	5% 1/10W
R254	1-249-389-11	CARBON 4.7	5% 1/4W	R422	1-216-027-00	METAL GLAZE 120	5% 1/10W
R265	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R423	1-216-029-00	METAL GLAZE 150	5% 1/10W
R266	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R424	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R302	1-216-295-91	CONDUCTOR, CHIP		R425	1-216-039-00	METAL GLAZE 390	5% 1/10W
R303	1-216-025-91	METAL GLAZE 100	5% 1/10W	R426	1-216-029-00	METAL GLAZE 150	5% 1/10W
R304	1-216-025-91	METAL GLAZE 100	5% 1/10W	R427	1-216-037-00	METAL GLAZE 330	5% 1/10W
R305	1-216-025-91	METAL GLAZE 100	5% 1/10W	R428	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R306	1-216-025-91	METAL GLAZE 100	5% 1/10W	R429	1-216-039-00	METAL GLAZE 390	5% 1/10W
R307	1-216-025-91	METAL GLAZE 100	5% 1/10W	R430	1-216-041-00	METAL GLAZE 470	5% 1/10W
R308	1-216-033-00	METAL GLAZE 220	5% 1/10W	R431	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R309	1-216-033-00	METAL GLAZE 220	5% 1/10W	R432	1-216-041-00	METAL GLAZE 470	5% 1/10W
R310	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R433	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R311	1-216-075-00	METAL GLAZE 12K	5% 1/10W	R434	1-216-041-00	METAL GLAZE 470	5% 1/10W
R312	1-216-025-91	METAL GLAZE 100	5% 1/10W	R435	1-216-041-00	METAL GLAZE 470	5% 1/10W
R313	1-216-089-91	METAL GLAZE 47K	5% 1/10W	R436	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R314	1-216-295-91	CONDUCTOR, CHIP		R437	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R315	1-216-295-91	CONDUCTOR, CHIP		R440	1-216-029-00	METAL GLAZE 150	5% 1/10W
R318	1-216-099-00	METAL GLAZE 120K	5% 1/10W	R521	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R319	1-216-123-11	METAL GLAZE 1.2M	5% 1/10W	R552	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R320	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R553	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R321	1-216-689-11	METAL CHIP 39K	0.50% 1/10W	R554	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R322	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R555	1-249-429-11	CARBON 10K	5% 1/4W
R325	1-216-037-00	METAL GLAZE 330	5% 1/10W	R556	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R326	1-216-039-00	METAL GLAZE 390	5% 1/10W	R557	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R327	1-216-029-00	METAL GLAZE 150	5% 1/10W	R560	1-216-295-91	CONDUCTOR, CHIP	
R327	1-216-295-91	CONDUCTOR, CHIP (KV-G25M1)	(KV-G25M11)	R561	1-249-421-11	CARBON 2.2K	5% 1/4W
R328	1-216-029-00	METAL GLAZE 150	5% 1/10W	R562	1-249-420-11	CARBON 1.8K	5% 1/4W F
R328	1-216-295-91	CONDUCTOR, CHIP (KV-G25M1)	(KV-G25M11)	R563	1-247-885-00	CARBON 180K	5% 1/4W
R328	1-216-295-91	CONDUCTOR, CHIP (KV-G25M1)	(KV-G25M11)	R564	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R329	1-216-029-00	METAL GLAZE 150	5% 1/10W	R565	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R329	1-216-295-91	CONDUCTOR, CHIP (KV-G25M1)	(KV-G25M11)	R566	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R330	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R569	1-247-883-00	CARBON 150K	5% 1/4W
R331	1-216-115-00	METAL GLAZE 560K	5% 1/10W	R570	1-216-295-91	CONDUCTOR, CHIP	
R332	1-216-033-00	METAL GLAZE 220	5% 1/10W	R571	1-216-033-00	METAL GLAZE 220	5% 1/10W
R333	1-216-077-00	METAL GLAZE 15K	5% 1/10W	R603	1-249-416-11	CARBON 820	5% 1/4W F
R335	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R604	1-249-416-11	CARBON 820	5% 1/4W F
R336	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R606	1-215-915-11	METAL OXIDE 470	5% 3W F
R338	1-216-295-91	CONDUCTOR, CHIP		R610	1-215-924-00	METAL OXIDE 15K	5% 3W F
R339	1-216-036-00	METAL GLAZE 300	5% 1/10W	R611	1-202-933-61	FUSIBLE 0.1	10% 1/2W F
R340	1-216-035-00	METAL GLAZE 270	5% 1/10W	R612	1-219-134-11	FUSIBLE 0.1	10% 1/4W (KV-G25M11)
R341	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R612	1-249-377-11	CARBON 0.47	5% 1/4W F (KV-G25M11)
R342	1-216-036-00	METAL GLAZE 300	5% 1/10W	R613	1-219-134-11	FUSIBLE 0.1	10% 1/4W (KV-G25M11)
R343	1-216-035-00	METAL GLAZE 270	5% 1/10W	R614	1-215-877-11	METAL OXIDE 22K	5% 1W F
			(KV-G25M11)	R615	1-249-389-11	CARBON 4.7	5% 1/4W



# KV-G25M1/G25M11

RM-870



Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R616	$\Delta$ 1-218-265-91	METAL 8.2M	5% 1W
R617	1-215-924-00	METAL OXIDE 15K	5% 3W F
R618	1-219-134-11	FUSIBLE 0.1	10% 1/4W
(KV-G25M11)			
R619	1-219-134-11	FUSIBLE 0.1	10% 1/4W
R620	1-202-962-11	WIREWOUND 3.3	5% 10W
R622	1-217-191-21	WIREWOUND 0.18	10% 2W F
R623	1-247-807-31	CARBON 100	5% 1/4W
R624	1-215-881-11	METAL OXIDE 15	5% 2W F
R625	1-249-424-11	CARBON 3.9K	5% 1/4W
R626	1-249-420-11	CARBON 1.8K	5% 1/4W
R627	1-249-417-11	CARBON 1K	5% 1/4W
R628	1-249-417-11	CARBON 1K	5% 1/4W
R629	1-249-401-11	CARBON 47	5% 1/4W
R632	1-249-381-11	CARBON 1	5% 1/4W
R635	1-215-882-00	METAL OXIDE 22	5% 2W F
(KV-G25M11)			
R636	1-215-924-00	METAL OXIDE 15K	5% 3W F
R801	1-215-920-11	METAL OXIDE 3.3K	5% 3W F
R802	1-249-387-11	CARBON 3.3	5% 1/4W F
R803	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R804	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R805	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R809	1-247-756-11	CARBON 2.2K	5% 1/2W F
R811	1-216-346-00	METAL OXIDE 0.56	5% 1W F
R812	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R816	1-249-437-11	CARBON 47K	5% 1/4W
R820	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R821	1-215-910-00	METAL OXIDE 68	5% 3W F
R822	1-216-429-00	METAL OXIDE 270	5% 1W F
R823	1-247-756-11	CARBON 2.2K	5% 1/2W F
R825	1-249-392-11	CARBON 8.2	5% 1/4W F
R826	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R827	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R828	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R829	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R831	1-215-861-00	METAL OXIDE 47	5% 1W F
R832	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R834	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R851	1-249-382-11	CARBON 1.2	5% 1/4W F
R852	1-249-417-11	CARBON 1K	5% 1/4W F
R853	1-249-377-11	CARBON 0.47	5% 1/4W F
R854	1-249-377-11	CARBON 0.47	5% 1/4W F
R855	1-202-818-00	SOLID 1K	20% 1/2W
R856	1-249-431-11	CARBON 15K	5% 1/4W
R857	1-249-438-11	CARBON 56K	5% 1/4W
R858	1-216-370-11	METAL OXIDE 1.2	5% 2W F
R860	1-247-887-00	CARBON 220K	5% 1/4W
R881	1-216-043-91	METAL GLAZE 560	5% 1/10W
R882	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R883	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R895	1-216-348-00	METAL OXIDE 0.82	5% 1W F
R898	1-249-421-11	CARBON 2.2K	5% 1/4W
R902	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R904	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R905	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R906	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R907	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R908	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R909	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R910	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R911	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R913	1-216-041-00	METAL GLAZE 470	5% 1/10W
R914	1-216-041-00	METAL GLAZE 470	5% 1/10W
R915	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1201	1-216-023-00	METAL GLAZE 82	5% 1/10W
R1202	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1203	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1205	1-216-023-00	METAL GLAZE 82	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1206	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1211	1-216-021-00	METAL GLAZE 68	5% 1/10W
R1212	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1215	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1216	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R1218	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1219	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1220	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1221	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1227	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R1228	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1229	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1230	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1231	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1232	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1233	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1235	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R1239	1-249-389-11	CARBON 4.7	5% 1/4W F
R1240	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1241	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1243	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1245	1-216-037-00	METAL GLAZE 330	5% 1/10W
R1246	1-216-037-00	METAL GLAZE 330	5% 1/10W
R1247	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1248	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1249	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1250	1-216-119-00	METAL GLAZE 820K	5% 1/10W
R1251	1-216-119-00	METAL GLAZE 820K	5% 1/10W
R1252	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1253	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R1255	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1513	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1514	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1515	1-216-025-91	METAL GLAZE 100	5% 1/10W
<SWITCH>			
S601	$\Delta$ 1-571-433-31	SWITCH, PUSH (AC POWER)	
S801	1-572-707-11	SWITCH, LEVER	
S901	1-570-577-11	SWITCH, PUSH	
S902	1-570-577-11	SWITCH, PUSH	
S903	1-570-577-11	SWITCH, PUSH	
S904	1-570-577-11	SWITCH, PUSH	
S905	1-570-577-11	SWITCH, PUSH	
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	
<FILTER>			
SWF401	1-760-771-11	FILTER, SURFACE WAVE	
<TRANSFORMER>			
T601	$\Delta$ 1-429-139-21	TRANSFORMER, CONVERTER (SRT)	
T605	$\Delta$ 1-424-461-11	TRANSFORMER, LINE FILTER	
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851	$\Delta$ 8-598-945-00	TRANSFORMER ASSY, FLYBACK	
<THERMISTOR>			
THP601	$\Delta$ 1-810-961-11	THERMISTOR, POSITIVE	
<TUNER>			
TU101	$\Delta$ 8-598-323-00	TUNER BT-AG401	



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
<CRYSTAL>			
X101	1-577-358-21	VIBRATOR, CERAMIC	
X300	1-411-752-11	COIL	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	